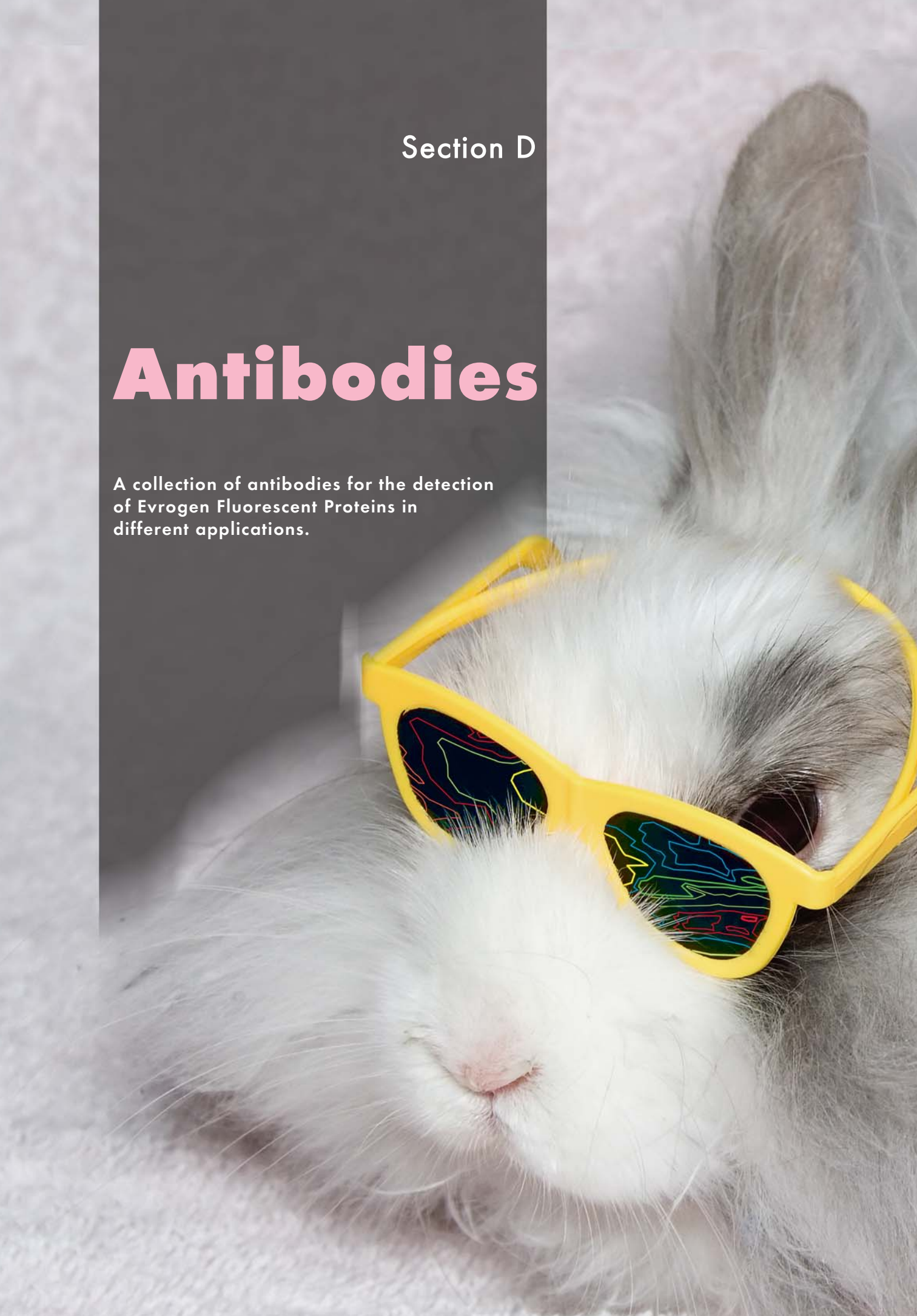


Section D

Antibodies

A collection of antibodies for the detection of Evrogen Fluorescent Proteins in different applications.



Section content

Antibody	Target proteins	Page
Anti-TurboGFP antibody	TurboGFP	D-3
Anti-TurboGFP(d) antibody	TurboGFP, CopGFP	D-4
Anti-CopGFP antibody	CopGFP	D-5
Anti-Tag(CGY)FP antibody	TagCFP, TagGFP, TagYFP, PS-CFP2, EGFP	D-6
Anti-PhiYFP antibody	PhiYFP, PhiYFP-m, TurboYFP	D-7
Anti-PhiYFP(d) antibody	PhiYFP, PhiYFP-m, TurboYFP	D-8
Anti-tRFP antibody	TurboRFP, TurboFP602, TurboFP635, TagRFP	D-9
Anti-Dendra2 antibody	Dendra2	D-10
Anti-KillerRed antibody	JRed, KillerRed	D-11
Product list		D-12
For ordering information, please see “How to order” section		G-3

Anti-TurboGFP antibody

Product	Cat.#	Size
Anti-TurboGFP antibody	AB511	100 µg
	AB512	200 µg

Please contact your local distributor for exact prices and delivery information.

Use

- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation

Description

Rabbit polyclonal antibody against non-denatured TurboGFP.

Immunogen: Full-length recombinant non-denatured TurboGFP comprising 6XHis tag.

Specificity

The antibody has been selected to recognize non-denatured TurboGFP. It can also be used for recognizing denatured TurboGFP, but with lesser activity than Anti-TurboGFP(d) antibody (see page D-4).

The antibody shows little or no cross-reactivity with other fluorescent proteins like EGFP, CopGFP, KFP-Red and, DsRed2.

Antibody preparation

Full-length recombinant TurboGFP comprising 6XHis tag was purified from transformed *E. coli* using metal-ion affinity chromatography. Antibodies were produced in rabbits immunized with the recombinant non-denatured TurboGFP. Specific IgG were purified by TurboGFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.1% mannitol, 0.1% dextran, 0.1M NaCl, 0.01M Na₂PO₄, and 0.01M NaBO₄; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

Notice to Purchaser:

TurboGFP-related products: These products are intended for research use only and covered by Evrogen Patents and/or Patent applications pending. By use of these products, you accept the terms and conditions of the applicable Limited Use Label License (Appendix A, page G-5).

MATERIAL SAFETY DATA SHEET INFORMATION

To the best of our knowledge, these products do not require a Material Safety Data Sheet. However, all the properties of these products (and, if applicable, each of their components) have not been thoroughly investigated. Therefore, we recommend that you use gloves and eye protection, and wear a laboratory coat when working with these products.

Anti-TurboGFP(d) antibody

Product	Cat.#	Size
Anti-TurboGFP(d) antibody	AB513	100 µg
	AB514	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Western blot
- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation



Western blot detection of fluorescent proteins using Anti-TurboGFP(d) antibody.

1 — TagCFP; 2 — TagGFP; 3 — TagYFP; 4 — TagRFP; 5 — TurboFP602; 6 — TurboGFP; 7 — TurboYFP; 8 — TurboRFP; 9 — PS-CFP2; 10 — Dendra2; 11 — KillerRed; 12 — EGFP.

Recombinant proteins were purified from transformed *E. coli*. 25 ng of each protein were separated by SDS PAGE (14% acrylamide). The samples were boiled before loading. Antibody was used at a 1/10000 dilution. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Description

Rabbit polyclonal antibody against denatured TurboGFP.

Immunogen: Full-length recombinant denatured TurboGFP comprising 6XHis tag.

Specificity

The antibody has been selected to recognize denatured TurboGFP and CopGFP. It can also be used for recognizing non-denatured TurboGFP and CopGFP, but with lesser activity than corresponding Anti-TurboGFP or Anti-CopGFP antibodies.

The antibody shows little or no cross-reactivity with TagCFP, TagGFP, TagYFP, TagRFP, TurboFP602, TurboYFP, TurboRFP, PS-CFP2, Dendra2, KillerRed, EGFP, KFP-Red, and DsRed2.

Antibody preparation

Full-length recombinant TurboGFP comprising 6XHis tag was purified from transformed *E. coli* using metal-ion affinity chromatography. Antibody was produced in rabbits immunized with the recombinant denatured TurboGFP. Specific IgG were purified by TurboGFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.1% mannitol, 0.1% dextran, 0.1M NaCl, 0.01M Na₂PO₄, and 0.01M NaBO₃; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

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Anti-CopGFP antibody

Product	Cat.#	Size
Anti-CopGFP antibody	AB501	100 µg
	AB502	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation

Description

Rabbit polyclonal antibody against non-denatured CopGFP.

Immunogen: Full-length recombinant non-denatured CopGFP comprising 6XHis tag.

Specificity

The antibody has been selected to recognize non-denatured CopGFP.

Heat- or chemically denatured protein lacks antigen determinants.

The antibody shows little or no cross-reactivity with other fluorescent proteins like EGFP, TurboGFP, KFP-Red, and DsRed2.

Antibody preparation

Full-length recombinant CopGFP comprising 6XHis tag was purified from transformed *E. coli* using metal-ion affinity chromatography. Antibody was produced in rabbits immunized with the recombinant non-denatured CopGFP. Specific IgG were purified by CopGFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.1% mannitol, 0.1% dextran, 0.1M NaCl, 0.01M Na₂PO₄, and 0.01M NaBO₄; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

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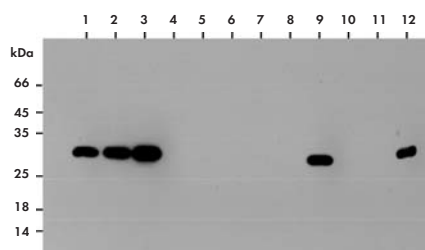
Anti-Tag(CGY)FP antibody

Product	Cat.#	Size
Anti-Tag(CGY)FP antibody	AB121	100 µg
	AB122	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Western blot
- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation



Western blot detection of fluorescent proteins using Anti-Tag(CGY)FP antibody.

1 — TagCFP; 2 — TagGFP; 3 — TagYFP; 4 — TagRFP; 5 — TurboFP602; 6 — TurboGFP; 7 — TurboYFP; 8 — TurboRFP; 9 — PS-CFP2; 10 — Dendra2; 11 — KillerRed; 12 — EGFP.

Recombinant proteins were purified from transformed *E. coli*. 25 ng of each protein were separated by SDS PAGE (14% acrylamide). The samples were boiled before loading. Antibody was used at a 1/10000 dilution. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Description

Rabbit polyclonal antibody against denatured and native TagCFP, TagGFP, TagYFP and PS-CFP2.

Immunogen

Full-length recombinant denatured TagGFP comprising 6xHis tag.

Specificity

The antibody has been selected to recognize both denatured and native TagCFP, TagGFP, TagYFP, and PS-CFP2. The antibody also recognizes EGFP.

The antibody shows little or no cross-reactivity with TagRFP, TurboGFP, TurboYFP, TurboRFP, TurboFP602, JRed, Dendra2, and KillerRed.

Antibody preparation

Full-length recombinant TagGFP was purified from transformed *E. coli* using organic extraction and hydrophobic chromatography. Antibody was produced in rabbits immunized with the recombinant denatured TagGFP and purified by TagGFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.01M Na₂PO₄, 0.1M NaCl, 0.25 mg/ml gelatin, and 1% trehalose; pH 7.4.

Reconstitution

Reconstitute with sterile water or 50% glycerol.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

Notice to Purchaser:

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MATERIAL SAFETY DATA SHEET INFORMATION

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Anti-PhiYFP antibody

Product	Cat.#	Size
Anti-PhiYFP antibody	AB601	100 µg
	AB602	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation

Description

Rabbit polyclonal antibody against non-denatured TurboYFP and Phi-Yellow proteins.

Immunogen: Full-length recombinant non-denatured PhiYFP comprising 6XHis tag.

Specificity

The antibody has been selected to recognize non-denatured TurboYFP, PhiYFP, and PhiYFP-m.

Heat- or chemically denatured protein lacks antigen determinants.

The antibody shows little or no cross-reactivity with other fluorescent proteins like EGFP, TurboGFP, KFP-Red, and DsRed2.

Antibody preparation

Full-length recombinant PhiYFP comprising 6XHis tag was purified from transformed *E. coli* using metal-ion affinity chromatography. Antibody was produced in rabbits immunized with the recombinant non-denatured PhiYFP. Specific IgG were purified by PhiYFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.1% mannitol, 0.1% dextran, 0.1M NaCl, 0.01M Na₂PO₄, and 0.01M NaBO₄; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

Notice to Purchaser:

PhiYellow-related products: These products are intended for research use only and covered by Evrogen Patents and/or Patent applications pending. By use of these products, you accept the terms and conditions of the applicable Limited Use Label License (Appendix A, page G-5).

MATERIAL SAFETY DATA SHEET INFORMATION

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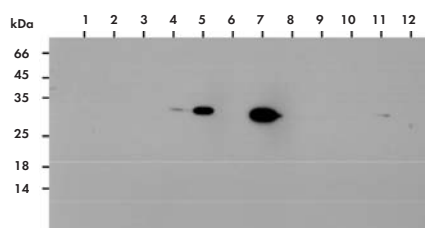
Anti-PhiYFP(d) antibody

Product	Cat.#	Size
Anti-PhiYFP(d) antibody	AB603	100 µg
	AB604	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Western blot
- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation



Western blot detection of fluorescent proteins using Anti-PhiYFP(d) antibody.

1 — TagCFP; 2 — TagGFP; 3 — TagYFP; 4 — TagRFP; 5 — TurboFP602; 6 — TurboGFP; 7 — TurboYFP; 8 — TurboRFP; 9 — PS-CFP2; 10 — Dendra2; 11 — KillerRed; 12 — EGFP.

Recombinant proteins were purified from transformed *E. coli*. 25 ng of each protein were separated by SDS PAGE (14% acrylamide). The samples were boiled before loading. Antibody was used at a 1/10000 dilution. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Description

Rabbit polyclonal antibody against denatured TurboYFP and Phi-Yellow proteins.

Immunogen: Full-length recombinant denatured PhiYFP comprising 6XHis tag.

Specificity

The antibody has been selected to recognize denatured TurboYFP, PhiYFP, and PhiYFP-m. It can also be used for recognizing non-denatured Phi-Yellow proteins, but with lesser activity than Anti-PhiYFP antibody.

The antibody shows little or no cross-reactivity with TagCFP, TagGFP, TagYFP, TagRFP, TurboGFP, TurboRFP, JRed, Dendra2 and KillerRed. The antibody shows cross-reactivity with TagRFP, TurboFP602, and TurboFP635.

Antibody preparation

Full-length recombinant PhiYFP comprising 6XHis tag was purified from transformed *E. coli* using metal-ion affinity chromatography. Antibody was produced in rabbits immunized with the recombinant denatured PhiYFP. Specific IgG were purified by PhiYFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.1% mannitol, 0.1% dextran, 0.1M NaCl, 0.01M Na₂PO₄, and 0.01M NaBO₃; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

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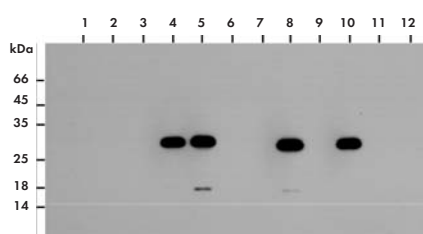
Anti-tRFP antibody

Product	Cat.#	Size
Anti-tRFP antibody	AB231	100 µg
	AB232	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Western blot
- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation



Western blot detection of fluorescent proteins using Anti-tRFP antibody.

1 — TagCFP; 2 — TagGFP; 3 — TagYFP; 4 — TagRFP; 5 — TurboFP602; 6 — TurboGFP; 7 — TurboYFP; 8 — TurboRFP; 9 — PS-CFP2; 10 — Dendra2; 11 — KillerRed; 12 — EGFP.

Recombinant proteins were purified from transformed *E. coli*. 25 ng of each protein were separated by SDS PAGE (14% acrylamide). The samples were boiled before loading. Antibody was used at a 1/10000 dilution. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Description

Rabbit polyclonal antibody against denatured and native TurboRFP, TurboFP602, TurboFP635, TagRFP, and TagFP635.

Immunogen: Full-length recombinant denatured TurboRFP.

Specificity

The antibody has been selected to recognize both denatured and native TurboRFP, TurboFP602, TurboFP635, TagRFP, and TagFP635.

The antibody shows little or no cross-reactivity with TagCFP, TagGFP, TagYFP, TurboGFP, TurboYFP, JRed, PS-CFP2, KillerRed, and EGFP. The antibody shows cross-reactivity with Dendra2.

Antibody preparation

Full-length recombinant TurboRFP was purified from transformed *E. coli* using organic extraction and hydrophobic chromatography. Antibody was produced in rabbits immunized with the recombinant denatured TurboRFP and purified by TurboRFP affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.01M Na₂PO₄, 0.1M NaCl, 0.25 mg/ml gelatin, and 1% trehalose; pH 7.4.

Reconstitution

Reconstitute with sterile water or 50% glycerol.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

Note: Anti-tRFP antibody is not recognized by (at least) some of mouse monoclonal anti-rabbit antibodies. Please use goat anti-rabbit antibodies instead.

Notice to Purchaser:

TurboRFP-related products: These products are intended for research use only and covered by Evrogen Patents and/or Patent applications pending. By use of these products, you accept the terms and conditions of the applicable Limited Use Label License (Appendix A, page G-5).

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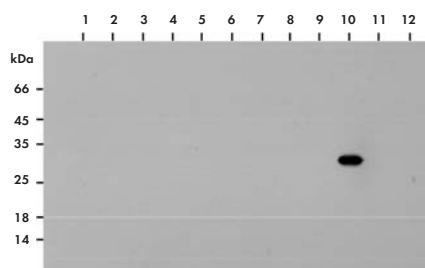
Anti-Dendra2 antibody

Product	Cat.#	Size
Anti-Dendra2 antibody	AB821	100 µg
	AB822	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Western blot
- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation



Western blot detection of fluorescent proteins using Anti-Dendra2 antibody.

1 — TagCFP; 2 — TagGFP; 3 — TagYFP; 4 — TagRFP; 5 — TurboFP602; 6 — TurboGFP; 7 — TurboYFP; 8 — TurboRFP; 9 — PS-CFP2; 10 — Dendra2; 11 — KillerRed; 12 — EGFP.

Recombinant proteins were purified from transformed *E. coli*. 25 ng of each protein were separated by SDS PAGE (14% acrylamide). The samples were boiled before loading. Antibody was used at a 1/10000 dilution. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Description

Rabbit polyclonal antibody against Dendra2 protein.

Immunogen: Full-length recombinant denatured Dendra2.

Specificity

The antibody has been selected to recognize both denatured and native Dendra2.

The antibody shows little or no cross-reactivity with TagCFP, TagGFP, TagYFP, TagRFP, TurboGFP, TurboYFP, TurboRFP, TurboFP602, JRed, and KillerRed.

Antibody preparation

Full-length recombinant Dendra2 was purified from transformed *E. coli* using organic extraction and hydrophobic chromatography. Antibody was produced in rabbits immunized with the recombinant denatured Dendra2 and purified by Dendra2 affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.01M Na₂PO₄, 0.1M NaCl, 0.25 mg/ml gelatin, and 1% trehalose; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

Notice to Purchaser:

Dendra2-related products are intended to be used by academic (non-commercial) entities and for research purposes only. Any use of the proprietary nucleic acid or protein other than for research use or by a commercial entity is strictly prohibited. Transfer of this product by purchaser to any other party is specifically prohibited.

MATERIAL SAFETY DATA SHEET INFORMATION

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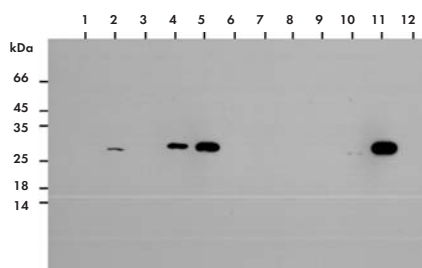
Anti-KillerRed antibody

Product	Cat.#	Size
Anti-KillerRed antibody	AB961	100 µg
	AB962	200 µg

Please contact your local distributor for exact prices and delivery information

Use

- Western blot
- Immunoblotting
- Immunohistochemistry
- ELISA
- In cell Western
- Immunoprecipitation



Western blot detection of fluorescent proteins using Anti-KillerRed antibody.

1 — TagCFP; 2 — TagGFP; 3 — TagYFP; 4 — TagRFP; 5 — TurboFP602; 6 — TurboGFP; 7 — TurboYFP; 8 — TurboRFP; 9 — PS-CFP2; 10 — Dendra2; 11 — KillerRed; 12 — EGFP.

Recombinant proteins were purified from transformed *E. coli*. 25 ng of each protein were separated by SDS PAGE (14% acrylamide). The samples were boiled before loading. Antibody was used at a 1/10000 dilution. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Description

Rabbit polyclonal antibody against KillerRed and JRed proteins.

Immunogen: Full-length recombinant denatured KillerRed.

Specificity

The antibody has been selected to recognize both denatured and native KillerRed and JRed.

The antibody shows little or no cross-reactivity with TagCFP, TagYFP, TurboGFP, TurboYFP, TurboRFP. Anti-KillerRed antibody shows cross-reactivity with TagGFP, TagRFP, TurboFP602, and TurboFP635.

Antibody preparation

Full-length recombinant KillerRed was purified from transformed *E. coli* using organic extraction and hydrophobic chromatography. Antibody was produced in rabbits immunized with the recombinant denatured KillerRed and purified by KillerRed affinity chromatography.

Formulation

Lyophilized from the buffer containing 0.01M Na₂PO₄, 0.1M NaCl, 0.25 mg/ml gelatin, and 1% trehalose; pH 7.4.

Reconstitution and storage

Reconstitute with sterile water or 50% glycerol.

Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +2 — +8°C for three months without detectable loss of activity.

Reconstituted with 50% glycerol, antibody can be stored at -20°C in a manual defrost freezer for six months without detectable loss of activity. Aliquot antibody upon reconstitution. Avoid repeated freeze / thaw cycles.

Notice to Purchaser:

JRed-related products are intended to be used by academic (non-commercial) entities and for research purposes only. Any use of the proprietary nucleic acid or protein other than for research use or by a commercial entity is strictly prohibited. Transfer of this product by purchaser to any other party is specifically prohibited.

MATERIAL SAFETY DATA SHEET INFORMATION

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Antibodies: product list

For updated product information, please visit the Evrogen Web site (www.evrogen.com/AB.shtml).

Product	Cat.#	Description	Size	Page
Anti-TurboGFP antibody	AB511	Rabbit polyclonal antibody against non-denatured	100 µg	D-3
	AB512	TurboGFP	200 µg	
Anti-TurboGFP (d) antibody	AB513	Rabbit polyclonal antibody against denatured	100 µg	D-4
	AB514	TurboGFP and CopGFP	200 µg	
Anti-CopGFP antibody	AB501	Rabbit polyclonal antibody against non-denatured	100 µg	D-5
	AB502	CopGFP	200 µg	
Anti-Tag(CGY)FP antibody	AB121	Rabbit polyclonal antibody against TagGFP, TagCFP,	100 µg	D-6
	AB122	and TagYFP	200 µg	
Anti-PhiYFP antibody	AB601	Rabbit polyclonal antibody against non-denatured	100 µg	D-7
	AB602	PhiYFP, PhiYFP-m, and TurboYFP	200 µg	
Anti-PhiYFP(d) antibody	AB603	Rabbit polyclonal antibody against denatured	100 µg	D-8
	AB604	PhiYFP, PhiYFP-m, and TurboYFP	200 µg	
Anti-tRFP antibody	AB231	Rabbit polyclonal antibody against TagRFP, TagFP635,	100 µg	D-9
	AB232	TurboRFP, TurboFP602 and TurboFP635 proteins	200 µg	
Anti-Dendra2 antibody	AB821	Rabbit polyclonal antibody against Dendra2	100 µg	D-10
	AB822		200 µg	
Anti-KillerRed antibody	AB961	Rabbit polyclonal antibody against KillerRed	100 µg	D-11
	AB962	and JRed proteins	200 µg	

Please contact your local distributor for exact prices and delivery information.

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