

## Anti-PhiYFP(d) antibody

Cat. #AB603

### Description

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

**Size:** 100 µg.

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

**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 Na<sub>2</sub>PO<sub>4</sub>, 0.01M NaBO<sub>4</sub>, pH 7.4.

**Reconstitution:** Reconstitute with 100 µl of sterile water or 50% glycerol.

**Storage:** Lyophilized samples are stable for twelve months from date of receipt when stored at -20°C or -70°C. The presence of silica gel drier is advisable.

Reconstituted with sterile water, antibody can be stored at +4°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.**

**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.

**Applications:** Western blot, immunoblotting, immunohistochemistry, ELISA, In cell Western, immunoprecipitation.

## **Recommendations for use**

Anti-PhiYFP(d) antibody can be used to recognize denatured PhiYFP and PhiYFP-m proteins and their fusions. Although this antibody recognizes non-denatured PhiYFP and PhiYFP-m proteins as well, Evrogen anti-PhiYFP antibody (cat. ##AB601/AB602) perform better for this goal.

**Working concentrations:** For Western blot immunoblotting and immunohistochemistry use at a dilution of 1:20 000

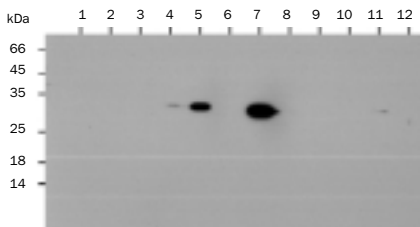
For ELISA: use at a dilution of 1:20 000 - 1:30 000

**Note:** Optimal dilutions/concentrations should be determined by the end user.

**Tissue (cells) fixation for immunohistochemistry:** Formaldehyde (formalin, paraform) fixation is recommended. For example, tissues can be fixed in PBS containing 4% formaldehyde for 10-15 min, treated with 0.1% saponin in PBS for 10-15 min, and washed three times in PBS.

**Sample preparation for Western blot:**

To a sample containing 1-100 ng of a target protein, add an equal volume of 2x SDS-PAGE sample buffer. Heat the sample at 95°C before loading on a gel or spotting on a membrane (for dots).



**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.

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### Notice to Purchaser:

This product is intended for research use only.

**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.