

Anti-tRFP antibody

Cat. #AB231

Description

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

Size: 100 µg.

Immunogen: Full-length recombinant denatured TurboRFP.

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, 1% trehalose, 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. 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.

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

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

Applications: Western blot, Immunoblotting, Immuno-histochemistry, ELISA, In cell Western, Immunoprecipitation.

Recommendations for use

The antibody can be used to recognize TurboRFP, TurboFP602, TurboFP635, TagPF636, and TagRFP proteins and their fusions.

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

Working concentrations:

For Western blot use at a dilution of 1:10000;

for ELISA — 1:20000;

for immunohistochemistry — 1:1000.

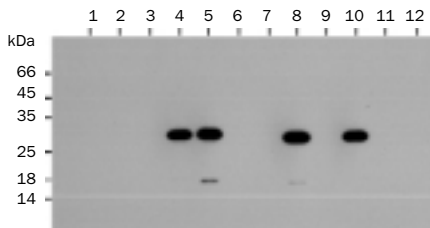
Note: Optimal dilutions/concentrations should be determined by the end user.

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-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.

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.