

Anti-tRFP antibody

Product	Cat.#	Lot.#	Size
Anti-tRFP antibody	AB233	23301171269	100 µg
	AB233	23301241269	100 µg

Use

- Western blot
- Immunoblotting
- ICC
- ELISA

Description

Rabbit polyclonal antibody against TurboRFP, TurboFP602, TurboFP635, Katushka2S, TurboFP650, NirFP, TagBFP, TagBFP2, TagRFP, FusionRed, TagFP635, mKate2, PA-TagRFP, mRuby and mCherry.

Specificity: The antibody was selected to recognize both denatured and native TagRFP. The antibody also recognizes TurboRFP, TurboFP602, TurboFP635, Katushka2S, TurboFP650, NirFP, TagBFP, TagBFP2, FusionRed, TagFP635, mKate2, PA-TagRFP, mRuby and mCherry.

Immunogen: Full-length recombinant denatured and non-denatured TagRFP, full-length recombinant denatured and non-denatured TurboFP635, full-length recombinant non-denatured TagBFP and full-length recombinant non-denatured FusionRed.

Antibody preparation: Full-length recombinant TagRFP, TagBFP, FusionRed and TurboFP635 were purified from transformed *E. coli* using organic extraction and ion exchange chromatography. Antibodies were produced in rabbits immunized with the mixture of recombinant denatured and non-denatured TagRFP, with the mixture of recombinant denatured and non-denatured TurboFP635, with non-denatured TagBFP and with non-denatured FusionRed. Specific IgG were purified by TagRFP, TurboFP635, TagBFP and FusionRed affinity chromatography, mixed together and lyophilized.

Formulation: Lyophilized from the PBS buffer containing 0.5% trehalose; pH 7.4.

Reconstitution: Reconstitute with sterile water or 50% glycerol to a concentration of 1 mg/ml.

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.

Recommendations for use

The antibody can be used to recognize TurboRFP, TurboFP602, TurboFP635, Katushka2S, TurboFP650, NirFP, TagBFP, TagBFP2, TagRFP, FusionRed, TagFP635, mKate2, PA-TagRFP, mRuby and mCherry proteins and their fusions. The antibody can also be used for Western blot detection of Dendra2.

Working concentrations:

For Western blot use at a dilution of 1 : 1 000 - 1 : 5 000;

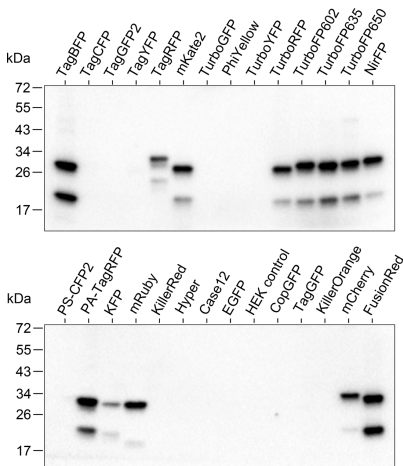
For ELISA use at a dilution of 1 : 30 000 - 1 : 50 000;

For immunocytochemistry use at a dilution of 1 : 1 000 - 1 : 3 000.

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 10-100 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.

Lisates of HEK293 cells expressing fluorescent proteins were boiled in sample buffer (95 °C, 10 min) before loading. Anti-tRFP antibody was used in the concentration 0.6 µg/ml. Secondary antibody: Goat anti-Rabbit HRP-conjugated IgG.

Note. Upon heating of samples, red fluorescent proteins that carry DsRed-like chromophore often demonstrate partial fragmentation with a break point just before the chromophore. It leads to the presence of multiple bands on the Western blot. These bands correspond to truncated and partially truncated forms of detected proteins.

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