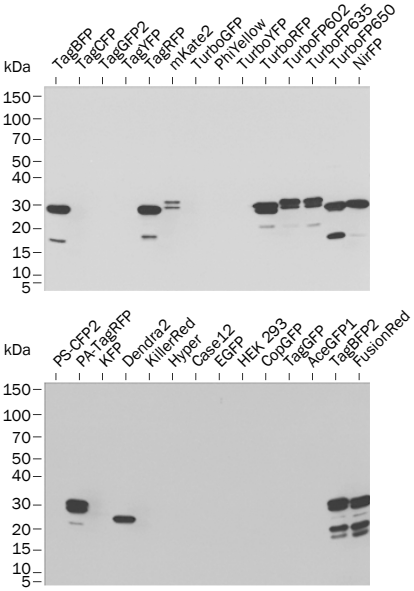
Anti-tRFP antibody

Product	Cat.#	Lot.#	Size
Anti-tRFP antibody	**AB233**	23301300366	100 µg
	AB233	23301040466	100 µg
	AB233	23301060466	100 µg

Use

- Western blot
- Immunoblotting
- ICC
- ELISA



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.

Description

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

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 and PA-TagRFP.

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. All samples of antiserum were tested, 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 and PA-TagRFP 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 : 50 000 – 1 : 100 000;
For immunocytochemistry use at a dilution of 1 : 1 000 – 1 : 5 000.

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).