

# Anti-TurboGFP antibody

Cat. #AB512

## Description

Rabbit polyclonal antibody against non-denatured TurboGFP.

**Size:** 200 µg.

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

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

**Reconstitution:** Reconstitute with 200 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 non-denatured TurboGFP. It can also be used for recognizing denatured TurboGFP, but with lesser activity than Anti-TurboGFP(d) antibody.

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

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

## Recommendations for use

Anti-TurboGFP antibody can be used to recognize non-denatured TurboGFP protein and its fusions. Although these antibody recognize denatured TurboGFP, Evrogen anti-TurboGFP(d) antibody (cat. ##AB513/AB514) perform better for this goal.

Anti-TurboGFP antibody can be also used to recognize denatured CopGFP, but not non-denatured CopGFP. Please use Evrogen anti-CopGFP antibody (cat. ##AB501/AB502) to recognize non-denatured CopGFP.

**Working concentrations:** For immunoblotting and immunohistochemistry use at a dilution of 1:25 000; 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 because it does not cause antigenicity loss. Do not use any protein-denaturing agents like glutaraldehydes, alcohols, or picric acid. 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 immunoblotting:** Use a non-denaturing buffer for tissue homogenization. Treat the sample by ultrasound to cut genomic DNA (2-3 impulses of minimal power is enough for a sample of 50 µl).

To a sample containing 1-100 ng of a target protein, add an equal volume of 2x SDS-PAGE sample buffer.

**Note:** Do not heat the samples before loading on a gel or spotting on a membrane (for dots).

**Note:** PAAG mobility of non-denatured proteins differs that of from denatured ones and often does not reflect protein molecular weight. Usually, immunostaining results in one or more diffuse bands corresponding to a non-denatured and a partially denatured protein.

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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.