

# Anti-Dendra2 antibody

Cat. #AB822

## Description

Rabbit polyclonal antibody against Dendra2 protein.

**Size:** 200 µg.

**Immunogen:** Full-length recombinant denatured Dendra2.

**Preparation:** Full-length recombinant Dendra2 was purified from transformed *E. coli* using organic extraction and hydrophobic chromatography. Antibody was produced in rabbits immunized with the recombinant denatured Dendra2 and purified by Dendra2 affinity chromatography.

**Formulation:** Lyophilized from the buffer containing 0.01M Na<sub>2</sub>PO<sub>4</sub>, 0.1M NaCl, 0.25 mg/ml gelatin, 1% trehalose, 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. 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 Dendra2.

The antibody shows no or little cross-reactivity with TagCFP, TagGFP, TagYFP, TagRFP, TurboGFP, TurboYFP, TurboRFP, TurboFP602, JRed, and KillerRed.

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

### **Recommendations for use**

The antibody can be used to recognize Dendra2 and its fusions.

#### **Working concentrations:**

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

for ELISA use at a dilution of 1:20000;

for immunohistochemistry use at a dilution of 1:5000.

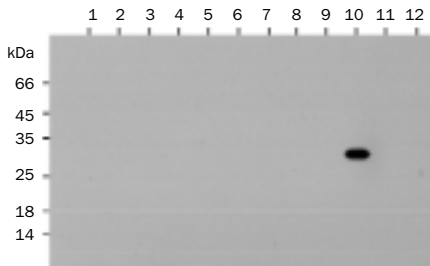
**Note:** Optimal dilutions/concentrations should be determined by the end user.

#### **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-Dendra2 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.