Produktinformation

Y Forschungsprodukte & Biochemikalien

⊙ Zellkultur & Verbrauchsmaterial

🧬 Diagnostik & molekulare Diagnostik

🔬 Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product datasheet

Rabbit anti-native Green Fluorescent Protein, conjugated to Soyabean Peroxidase

nordicmubio.com/product/rabbit-anti-native-green-fluorescent-protein-conjugated-to-soyabean-peroxidase/

Catalogue number: **Bii-nGFPab4-PO**

Clone	Polyclonal
Product Type	Primary Antibodies
Units	0.1ml
Host	Rabbit
Application	ELISA
Immunoblotting
Immunocytochemistry

Background

Green fluorescent protein (GFP) is a 27kD protein which was originally identified in the photo organs of Aequorea victoria (A. victoria) jellyfish. GFP is a naturally fluorescent protein which emits green light at a maximum wavelength of 509 nm when excited by blue or UV light. In A.victoria, calcium ions bind and activate the protein aequorin causing the release of blue fluorescence, which is then absorbed by GFP resulting in the release of green fluorescence. In the laboratory, the GFP protein has been used extensively as a reporter molecule to label, and study, cellular and subcellular proteins in living cells using a wide range of biological applications, including oncology, cardiovascular diseases, brain research and embryology, just to name a few. For the quantitation of the expression of a specific protein, tagged with GFP in these model systems, antibodies to GFP have proven to be of value in immunoblotting studies and ELISA protocols.

Source

The anti-GFP antibody is a rabbit polyclonal antiserum obtained from rabbits immunised with highly purified native GFP derived from Aequorea victoria jellyfish.

Product

Each vial contains 100ul 1.6 mg/ml immunoaffinity purified polyclonal antibodies in 10 mM TRIS buffer pH 8.0, containing 0.02% sodium azide. This antibody is conjugated to soyabean peroxidase.

Applications

The antibody is suitable for the detection of GFP and its variants by Western blotting, ELISA and Immunocytochemistry. Optimal antibody dilutions for the different applications should be determined by titration. Recommended dilution for ELISA: 1:5,000 to 1:25,000. For immunoblotting a dilution of 1:2,000 to 1:10,000 is recommended. For immunocytochemistry the antiserum can be diluted 1:100 to 1:250.

Cross Reactivity

Aequoria Victoria (native) GFP, recombinant (E.Coli) and native GFP-fusion proteins, and all variants of GFP

tested.

Specificity
The affinity purified antibodies are directed against native green fluorescent protein from A.victoria jellyfish. The antibody recognises not only the native GFP, but also recombinant protein (E.Coli), native GFP-fusion proteins and all variants of GFP tested. Cross reactivity with E.coli. proteins is minimal.

Storage
Store at 4oC, or in small aliquots at -20oC.

References
1. Chalfie M, Tu Y, Euskirchen G, Ward WW, Prasher DC. (1994) Green fluorescent protein as a marker for gene expression. Science 263: 802-805. 2. UniProt: P42212 (A.victoria)

Caution
This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.