

Product Datasheet

GFP Antibody [HRP] NB600-313

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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NB600-313

GFP Antibody [HRP]

Product Information	
Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Gentamicin Sulfate
Isotype	IgG
Conjugate	HRP
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Product Description	
Description	<p>For extended storage aliquot contents and freeze at -20C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room</p> <p>This antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (<i>Aequorea victoria</i>) coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, anti-Peroxidase and purified and partially purified Green Fluorescent Protein (<i>Aequorea victoria</i>)</p>
Host	Goat
Species	Non-species specific
Reactivity Notes	No reaction was observed against Human, or Rat serum proteins. Known Cross Reactivity: rGFP. YFP differs from GFP due to a mutation at Thr203Tyr; antibodies raised against full-length GFP should also detect YFP and other variants. Reactivity in transgenic mice with GFP. Reactivity in human cell lines transfected with a GFP construct.
Specificity/Sensitivity	No reaction was observed against Human, Mouse and Rat Serum Proteins.
Immunogen	The immunogen is a Green Fluorescent Protein (GFP) fusion protein corresponding to the full length amino acid sequence (246aa) derived from the jellyfish <i>Aequorea victoria</i> . (Uniprot: P42212)

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1:2000-1:5000, ELISA 1:10000-1:50000, Immunohistochemistry 1:500-1:2000, Immunohistochemistry-Paraffin 1:10-1:500, Knockout Validated, Knockdown Validated

Application Notes

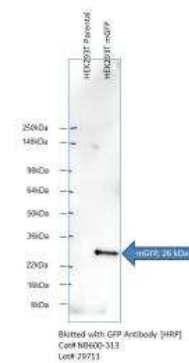
This product is designed to detect GFP and its variants. Anti-GFP Peroxidase conjugated antibody has been tested by ELISA to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen and recognizes wild type, recombinant and enhanced forms of GFP and by western blot. Biotin conjugated polyclonal anti-GFP used in a sandwich ELISA is well suited to titrate GFP in solution using this antibody in combination with monoclonal anti-GFP using either form of the antibody as the capture or detection antibody. However, use the monoclonal form only for the detection of wild type or recombinant GFP as this form does not sufficiently detect 'enhanced' GFP. The detection antibody is typically conjugated to biotin and subsequently reacted with streptavidin conjugated HRP. Fluorochrome conjugated polyclonal anti-GFP can be used to detect GFP by immunofluorescence microscopy in prokaryotic (E.coli) and eukaryotic (CHO cells) expression systems and can detect GFP containing inserts. Significant amplification of signal is achieved using fluorochrome conjugated polyclonal anti-GFP relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated polyclonal anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.

NOTE: Do NOT add Sodium Azide (it inhibits HRP irreversibly).



Images

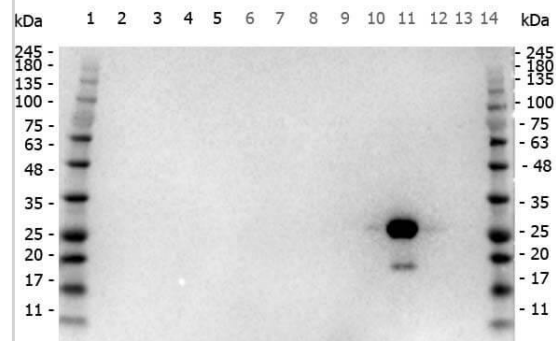
This GFP antibody works well with mGFP tagged over-expression. Because it is conjugated with HRP, secondary antibody is not needed, saves lots of time. Image from verified customer review.



Lane 1: 50ng of GFP. Lane 2: none. Primary antibody: none. Secondary antibody: Anti-GFP Antibody Peroxidase Conjugate secondary antibody was used at 1:1000 for 45 min at RT. Block: 1% BSA-TTBS 30 min at 20C. Predicted/Observed size: 28 kDa for GFP. Other band(s): none



Western Blot of Goat anti-GFP antibody Peroxidase conjugated. Marker: Opal Pre-stained ladder



Publications

Zhu Y, Alvarez F, Wolff N et al. Interactions of Severe Acute Respiratory Syndrome Coronavirus 2 Protein E With Cell Junctions and Polarity PSD-95/Dlg/ZO-1-Containing Proteins *Frontiers in Microbiology* 2022-02-23 [PMID: 35283834] (Western Blot, Block/Neutralize)

Deb Roy A, Gross EG, Pillai GS Et al. Non-catalytic allostery in α -TAT1 by a phospho-switch drives dynamic microtubule acetylation *J Cell Biol* 2022-10-12 [PMID: 36222836]

Details:

Citation using the HRP version of this antibody.

Kijewski SDG, Akiyama H, Feizpour A et al. Access of HIV-2 to CD169-dependent dendritic cell-mediated trans infection pathway is attenuated *Virology* 2016-08-14 [PMID: 27521724] (WB)

Jiang H, Bower KE, Beuscher AEIV et al. Stabilizers of the Max Homodimer Identified in Virtual Lig Screening Inhibit Myc Function *Mol Pharmacol* 2009-01-01 [PMID: 19498040]

Details:

This citation used the HRP version of this antibody.

Jiang H, Bower KE, Beuscher AE et al Stabilizers of the Max Homodimer Identified in Virtual Lig Screening Inhibit Myc Function *Mol Pharmacol* 2009-01-01 [PMID: 16139355]

Details:

This citation used the HRP version of this antibody.

Conticello, SG et al. The Vif protein of HIV triggers degradation of the human antiretroviral DNA deaminase APOBEC3G *Curr Biol* 2003-01-01 [PMID: 14614829]

Details:

This citation used the HRP version of this antibody.





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Products Related to NB600-313

NBP1-96886	Goat IgG Isotype Control [HRP]
NB100-56401PEP	GFP Antibody Blocking Peptide
NBC1-22949	Recombinant GFP Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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