

Product Datasheet

GFP Antibody [DyLight 488]

NBP1-69969

Unit Size: 0.1 mg

Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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NBP1-69969

GFP Antibody [DyLight 488]

Product Information	
Unit Size	0.1 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C in the dark. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	Reconstitute with 100 ul deionized water (or equivalent)
Isotype	IgG
Conjugate	DyLight 488
Purity	Immunogen affinity purified
Buffer	Lyophilized from 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>Store vial at 4C prior to restoration. 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 temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p> <p>GFP Dylight(TM) 488 Conjugated Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using Green Fluorescent Protein (Aequorea victoria) 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 and purified and partially purified Green Fluorescent Protein (Aequorea victoria)</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 or 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 Aequorea victoria. (Uniprot: P42212)
Notes	DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Fluorophore-linked immunosorbent assay, Immunocytochemistry/ Immunofluorescence, Knockdown Validated, Knockout Validated

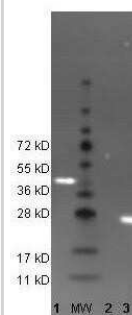


Recommended Dilutions	Western Blot 1:10000, ELISA 1:100 - 1:2000, Immunocytochemistry/ Immunofluorescence >1:5000, Dot Blot, Fluorophore-linked immunosorbent assay 1:100 - 1:2000, Knockout Validated, Knockdown Validated
Application Notes	This product has been tested by dot blot and western blot. The emission spectra for this DyLight(TM) conjugate match the principle output wavelengths of most common fluorescence instrumentation.

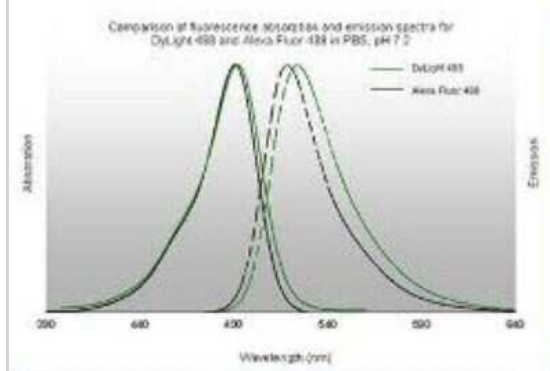


Images

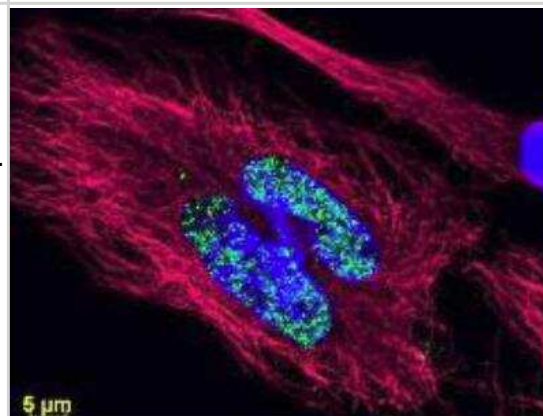
Lane 1: His-Sumo-GFP. Lane: Molecular Weight. Lane 2: Beta-Galactosidase (negative control). Lane 3: recombinant GFP control protein. Load: 35 ug per lane. Primary antibody: none. Secondary antibody: DyLight (TM) 488 conjugated anti-GFP goat secondary antibody at 1:5,000. Block for 2 hr at RT. Predicted/Observed size: 27kDa/54kDa, 27kDa for rGFP/~45kDa His-Sumo-GFP.



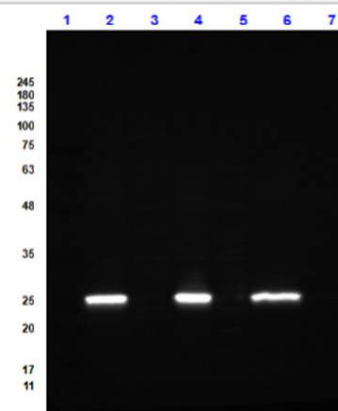
Comparison of fluorescence absorption and emission spectra for DyLight (TM) 488 and Alexa Fluor 488 in PBS, pH 7.2. The emission spectra for this DyLight (TM) conjugate match the principle output wavelengths of most common fluorescence instrumentation.



Tissue: human breast carcinoma. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Anti-Histone and Anti-Tubulin antibody at 10 ug/mL for 1 h at RT. Secondary antibody: DyLight (R) 488 conjugate and DyLight (R) 549 conjugate goat secondary antibody at 1:10,000 for 45 min at RT. Localization: Histone is nuclear and Tubulin is cytoplasmic. Staining: Anti-Histone detection using a DyLight (R) 488 conjugate (green) fluorescent signal and Anti-Tubulin was detected using a DyLight (R) 549 conjugate (red) fluorescent signal. Nuclei were counter-stained using DAPI (blue).



Western Bot of Goat Anti-GFP (GOAT) Antibody DyLight(TM) 488 Conjugated. Lane 1: Opal Prestained Molecular Weight Marker



Publications

Joanna Triscott, Matthias Reist, Lukas Küng, Francielle C. Moselle, Marika Lehner, John Gallon, Archana Ravi, Gurpreet K. Arora, Simone de Brot, Mark Lundquist, Hector Gallart-Ayala, Julijana Ivanisevic, Salvatore Piscuoglio, Lewis C. Cantley, Brooke M. Emerling, Mark A. Rubin PI5P4K α supports prostate cancer metabolism and exposes a survival vulnerability during androgen receptor inhibition Science Advances 2023-02-01 [PMID: 36724278]

Li Calzi S, Shaw LC, Moldovan L et al. Progenitor cell combination normalizes retinal vascular development in the oxygen-induced retinopathy (OIR) model JCI Insight 2019-11-02 [PMID: 31672944] (ICC/IF)





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Products Related to NBP1-69969

NB410-28088G	Goat IgG Isotype Control [DyLight 488]
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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