

Datasheet for ABIN6720701  
**anti-GFP antibody (DyLight 488)**



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## Overview

Quantity:	100 µg
Target:	GFP
Reactivity:	Aequorea victoria
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This GFP antibody is conjugated to DyLight 488
Application:	Western Blotting (WB), ELISA, Fluorescence Microscopy (FM), FLISA, Dot Blot (DB)

## Product Details

Purpose:	GFP Antibody Dylight™ 488 Conjugated
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.
Isotype:	IgG
Specificity:	Wt, rGFP, eGFP
Cross-Reactivity (Details):	Minimal crossreactivity against Hu Ms & Rt Serum Proteins Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum and purified and partially purified Green Fluorescent Protein (Aequorea victoria).
Purification:	GFP Dylight™ 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.
Labeling Ratio:	5.7

## Target Details

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Target:	GFP
Alternative Name:	GFP ( <a href="#">GFP Products</a> )
Background:	<p>Synonyms: goat anti-GFP Antibody DyLight™ 488 Conjugation, DyLight™ 488 conjugated goat anti-GFP antibody, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, Aequorea victoria, Jellyfish</p> <p>Background: GFP Dylight™ 488 Conjugated Antibody is designed for immunofluorescence microscopy, fluorescence based plate assays (FLISA) and fluorescent western blotting. This product is also suitable for multiplex analysis, including multicolor imaging, utilizing various commercial platforms.</p>
UniProt:	<a href="#">P42212</a>

## Application Details

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Application Notes:	<p>FLISA_Dilution: &gt;1:10,000</p> <p>ELISA_Dilution: 1:20,000 - 1:40,000</p> <p>IF_Microscopy_Dilution: &gt;1:5,000</p> <p>Western_Blots_Dilution: 1:10,000</p> <p>Other: User Optimized</p>
Comment:	<p>Suggested Applications: FC, IF, IHC, IP, Multiplex</p> <p>Anti-GFP Dylight™ 488 Conjugated Antibody has been tested by dot blot and western blot. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.</p>
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	<p>Reconstitution_Buffer: Restore with deionized water (or equivalent)</p> <p>Reconstitution_Volume: 100 µL</p>
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free</p> <p>Preservative: 0.01 % (w/v) Sodium Azide</p>
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

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should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Store Conjugated anti-GFP at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C 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 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiry Date: 12 months

## Publications

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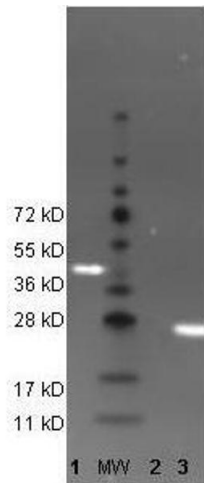
Product cited in: Gentili, Lahaye, Nadalin, Nader, Puig Lombardi, Herve, De Silva, Rookhuizen, Zueva, Goudot, Maurin, Bochnakian, Amigorena, Piel, Fachinetti, Londoño-Vallejo, Manel: "The N-Terminal Domain of cGAS Determines Preferential Association with Centromeric DNA and Innate Immune Activation in the Nucleus." in: **Cell reports**, Vol. 26, Issue 9, pp. 2377-2393.e13, (2019) ([PubMed](#)).

Haas, Meiler, Geiger, Vogt, Preuss, Kochs, Pichlmair: "Viral targeting of TFIIB impairs de novo polymerase II recruitment and affects antiviral immunity." in: **PLoS pathogens**, Vol. 14, Issue 4, pp. e1006980, (2018) ([PubMed](#)).

Begolly, Olschowka, Love, Williams, OBanion: "Fractionation enhances acute oligodendrocyte progenitor cell radiation sensitivity and leads to long term depletion." in: **Glia**, Vol. 66, Issue 4, pp. 846-861, (2018) ([PubMed](#)).

Dufour, Gillet, Frankel, Weibel, Emonet: "Direct Correlation between Motile Behavior and Protein Abundance in Single Cells." in: **PLoS computational biology**, Vol. 12, Issue 9, pp. e1005041, (2017) ([PubMed](#)).

Chang, Kunasegaran, Tarulli, De Silva, Voorhoeve, Pietersen: "New insights into lineage restriction of mammary gland epithelium using parity-identified mammary epithelial cells." in: **Breast cancer research : BCR**, Vol. 16, Issue 1, pp. R1, (2015) ([PubMed](#)).



### Western Blotting

**Image 1.** Western Blot of 488 conjugated anti-GFP antibody to detect GFP control proteins. Lane 1: His-Sumo-GFP. Lane: Molecular Weight. Lane 2: Beta-Galactosidase (negative control). Lane 3: recombinant GFP control protein. Load: 35 µg per lane. Primary antibody: none. Secondary antibody: 488 conjugated anti-GFP goat secondary antibody at 1:5,000. Block: ABIN925618 for 2 hr at RT. Predicted/Observed size: 27kDa/54kDa, 27kDa for rGFP/~45kDa His-Sumo-GFP. Other band(s): none.