

Datasheet for ABIN6699005

## Goat anti-Mouse IgG Antibody (DyLight 488) - Preadsorbed



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### Overview

Quantity:	100 µg
Target:	IgG
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	DyLight 488
Application:	Western Blotting (WB), FLISA, Fluorescence Microscopy (FM), Dot Blot (DB)

### Product Details

Purpose:	Mouse IgG (H&L) Antibody DyLight™ 488 Conjugated Pre-Adsorbed
Immunogen:	Mouse IgG whole molecule
Isotype:	IgG
Cross-Reactivity (Details):	Minimal crossreactivity against Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins
Characteristics:	Goat Anti-Mouse IgG Secondary Antibody DyLight™488 Conjugated, Goat Anti-Mouse IgG Antibody DyLight™488 Conjugated, Anti-mouse IgG secondary antibody, anti-mouse IgG DyLight™488 conjugated secondary antibody, Anti-Mouse IgG DyLight 488 Antibody generated in goat detects reactivity to Mouse IgG.
Purification:	Preadsorption: Pre-Adsorbed
Labeling Ratio:	4.8

## Target Details

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Target: IgG

Abstract: [IgG Products](#)

Target Type: Antibody

Background: Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75 % of serum immunoglobulins. Immunoglobulin G binds to viruses, bacteria, as well as fungi and facilitates their destruction or neutralization via agglutination (and thereby immobilizing them), activation of the complement cascade, and opsonization for phagocytosis. The whole IgG molecule possesses both the F(c) region, recognized by high-affinity Fc receptor proteins, as well as the F(ab) region possessing the epitope-recognition site. Both the Heavy and Light chains of the antibody molecule are present. Secondary Antibodies are available in a variety of formats and conjugate types. When choosing a secondary antibody product, consideration must be given to species and immunoglobulin specificity, conjugate type, fragment and chain specificity, level of cross-reactivity, and host-species source and fragment composition.

## Application Details

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Application Notes: FLISA\_Dilution: >1:20,000  
IF\_Microscopy\_Dilution: >1:5,000  
Western\_Blot\_Dilution: >1:10,000  
Other: User Optimized

Comment: Anti-Mouse IgG DyLight 488 Antibody has been tested by dot blot and western blot. This product 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. The emission spectra for this DyLight™ conjugate match the principle output wavelengths of most common fluorescence instrumentation.  
Suggested Applications: IF, Multiplex

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution Volume: 100 µL  
Reconstitution Buffer: Restore with deionized water (or equivalent)

## Handling

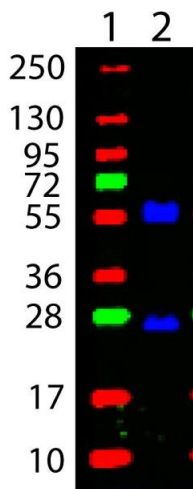
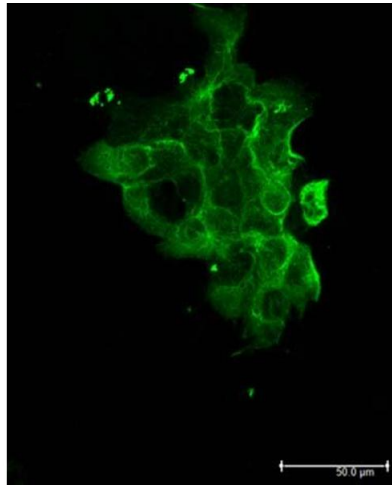
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Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free, 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store conjugated secondary antibody 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. Conjugated Secondary Antibody 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:	<p>Lin, Tseng, Chu, Wu, Zhang, Tsai: "Cerebroventricular Injection of Pgk1 Attenuates MPTP-Induced Neuronal Toxicity in Dopaminergic Cells in Zebrafish Brain in a Glycolysis-Independent Manner." in: <b>International journal of molecular sciences</b>, Vol. 23, Issue 8, (2022) (<a href="#">PubMed</a>).</p> <p>Manning, Bundros, Trimmer: "Benefits and pitfalls of secondary antibodies: why choosing the right secondary is of primary importance." in: <b>PLoS ONE</b>, Vol. 7, Issue 6, pp. e38313, (2012) (<a href="#">PubMed</a>).</p>
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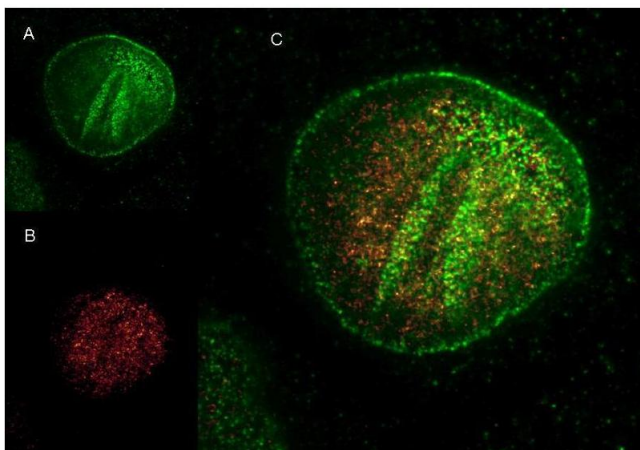


### Immunofluorescence

**Image 1.** Dylight 488 Goat Anti Mouse IgG antibody-Immunofluorescence Dylight 488 Goat Anti Mouse IgG antibody-Immunofluorescence Cell Type: A431 cells Fixation: 4% paraformaldehyde 10 min Permeablization: 0.5% Triton X 30 min Primary Ab: 200-301-880 lot 28977 1:250 72 hours 4°C Secondary Ab: 610-141-121 lot 21286 1:1000 overnight 4°C

### Western Blotting

**Image 2.** DyLight™ 488 Goat Anti Mouse IgG - Western Blot. Western Blot showing detection of Mouse IgG, heavy and light chain. 100 ng of Mouse IgG (Lane 2) was run on a 4-20% gel and transferred to 0.45 μm nitrocellulose. After blocking with 1% BSA-TTBS , diluted to 1X) 30 min at 20°C, Anti-MOUSE IgG (H&L) (GOAT) Antibody 488 Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Rb Rt & Sh Serum Proteins) secondary antibody was used at 1:1000 in Blocking Buffer for Fluorescent Western Blotting and imaged using the Bio-Rad 4000 MP. Molecular weight markers are in lane 1.



### Immunofluorescence

**Image 3.** Dylight 488 Goat Anti Mouse IgG antibody-Immunofluorescence Planet DyLight and ATTO dye conjugated antibodies provide high signal and low background for confocal microscopy and high resolution Stimulated Emission Depletion (STED) Microscopy. Both Dylight and Atto conjugated secondary antibodies maintained robust, intense signal during repeated laser excitation and de-excitation used during STED microscopy. Shown here are: A. (Green) Mouse anti NuP (NuP=Nuclear Pore Protein) detected with Dylight 488 Goat anti mouse B. (Red) Rabbit Anti Ezh1/2 Pab (Ezh=enhancer of zeste homology) with detection by ATTO 425 conjugated Goat

anti Rabbit C. (Red and Green) Images combined. Data was collected on a STED-CW TCS-SP5 Confocal system (Leica Microsystems) equipped with a DFC 350FX Camera allowing sequential acquisition in wide-field, confocal and STED CW imaging modes and provided courtesy of: Myriam Gastard, PhD, personal communication, Leica Microsystems, Inc. USA

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6699005.