

Datasheet for ABIN6699152

Goat anti-Rat IgG Antibody (DyLight 549) - Preadsorbed[Go to Product page](#)[1 Image](#)[1 Publication](#)

Overview

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|--------------|---|
| Quantity: | 100 µg |
| Target: | IgG |
| Reactivity: | Rat |
| Host: | Goat |
| Clonality: | Polyclonal |
| Conjugate: | DyLight 549 |
| Application: | Western Blotting (WB), FLISA, Fluorescence Microscopy (FM), Dot Blot (DB) |

Product Details

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|-----------------------------|--|
| Purpose: | Rat IgG (H&L) Antibody DyLight™ 549 Conjugated Pre-Adsorbed |
| Immunogen: | Rat IgG whole molecule |
| Isotype: | IgG |
| Cross-Reactivity (Details): | Minimal crossreactivity against Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins |
| Characteristics: | Goat Anti-Rat IgG DyLight 549™ Conjugated Antibody, Goat Anti-Rat IgG Antibody DyLight 549™ Conjugation, Anti-Rat IgG (H&L) DyLight™ 549 Antibody generated in goat detects reactivity to Rat IgG. |
| Purification: | Preadsorption: Pre-Adsorbed |
| Labeling Ratio: | 6.6 |

Target Details

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| Target: | IgG |
| Abstract: | IgG Products |
| Target Type: | Antibody |
| Background: | <p>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. This Anti-Rat IgG is conjugated to DyLight™549.</p> |

Application Details

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| Application Notes: | <p>FLISA_Dilution: >1:20,000 IF_Microscopy_Dilution: >1:5,000 Western_Blots_Dilution: >1:10,000 Other: User Optimized</p> |
| Comment: | <p>Anti-Rat IgG (H&L) DyLight™549 Antibody has been tested by dot blot and 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.</p> <p>Suggested Applications: IF, WB</p> |
| Restrictions: | For Research Use only |

Handling

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| Format: | Lyophilized |
| Reconstitution: | <p>Reconstitution Volume: 100 µL Reconstitution Buffer: Restore with deionized water (or equivalent)</p> |

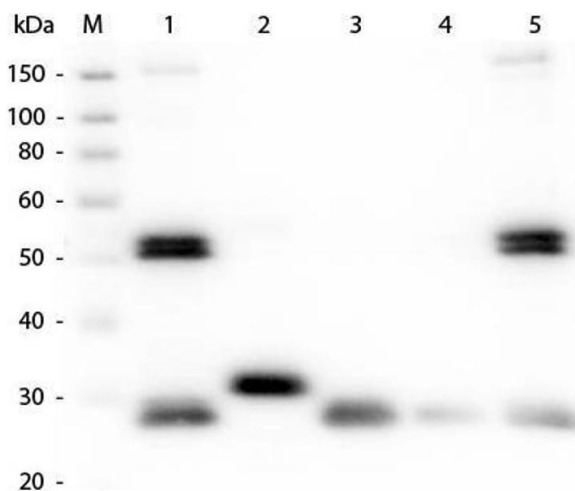
Handling

| | |
|--------------------|---|
| 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

Product cited in: Ide, Mochiji, Ueki, Yamaguchi, Shigenobu, Hirono, Wakabayashi: "Identification of the agg1 mutation responsible for negative phototaxis in a "wild-type" strain of Chlamydomonas reinhardtii." in: **Biochemistry and biophysics reports**, Vol. 7, pp. 379-385, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. Western Blot of Anti-Rat IgG (H&L) (GOAT) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins). Lane M: 3 µl Molecular Ladder. Lane 1: Rat IgG whole molecule. Lane 2: Rat IgG F(c) Fragment. Lane 3: Rat IgG Fab Fragment. Lane 4: Rat IgM Whole Molecule. Lane 5: Rat Serum. All samples were reduced. Load: 50 ng per lane. Block: ABIN925618 for 30 min at RT. Primary Antibody: Anti-Rat IgG (H&L) (GOAT) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins) 1:1,000 for 60 min at RT. Secondary Antibody: Anti-Goat IgG (DONKEY) Peroxidase

Conjugated Antibody 1:40,000 in ABIN925618 for 30 min at RT. Predicted/Obsevered Size: 25 and 55 kDa for Rat IgG and Serum, 25 kDa for F(c) and Fab, 78 and 25 kDa for IgM. Rat F(c) migrates slightly higher.