

Datasheet for ABIN964989

## Goat anti-Rabbit IgG (Heavy & Light Chain) Antibody (Atto 594) - Preadsorbed



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### Overview

Quantity:	100 µg
Target:	IgG
Binding Specificity:	Heavy & Light Chain
Reactivity:	Rabbit
Host:	Goat
Clonality:	Polyclonal
Conjugate:	Atto 594
Application:	Western Blotting (WB), FLISA, Fluorescence Microscopy (FM)

### Product Details

Immunogen:	Immunogen: Rabbit IgG whole molecule
Isotype:	IgG
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rabbit IgG and Rabbit Serum.
Characteristics:	<p>Anti-Rabbit IgG (H&amp;L) conjugated to ATTO 594 is designed for STED microscopy, FRET, 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> <p>This product is designed for STED microscopy, FRET, 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</p>

## Product Details

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platforms.

Purification: Preadsorption: Solid phase absorption

Labeling Ratio: 2.5

## Target Details

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Target: IgG

Abstract: [IgG Products](#)

Target Type: Antibody

Background: Synonyms: Goat anti-Rabbit IgG Antibody ATTO594 Conjugation, Goat anti-Rabbit IgG ATTO 594 Conjugated Antibody

Background: Anti-Rabbit IgG (H&L) ATTO 594 Antibody generated in goat detects reactivity to Rabbit IgG. 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 compliment cascade, and opsinization 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: Application Note: Anti-Rabbit IgG (H&L) conjugated to ATTO 594 is designed for STED microscopy, FRET, 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 ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.

FLISA Dilution: >1:20,000

Western Blot Dilution: >1:10,000

IF Microscopy Dilution: >1:5,000

## Application Details

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Comment: The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Reconstitution Volume: 500 µL  
Reconstitution Buffer: Restore with deionized water (or equivalent)

Concentration: 1.0 mg/mL

Buffer: Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free  
Preservative: 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.

Handling Advice: Avoid cycles of freezing and thawing.  
Product is photosensitive and should be protected from light.

Storage: RT, 4 °C, -20 °C

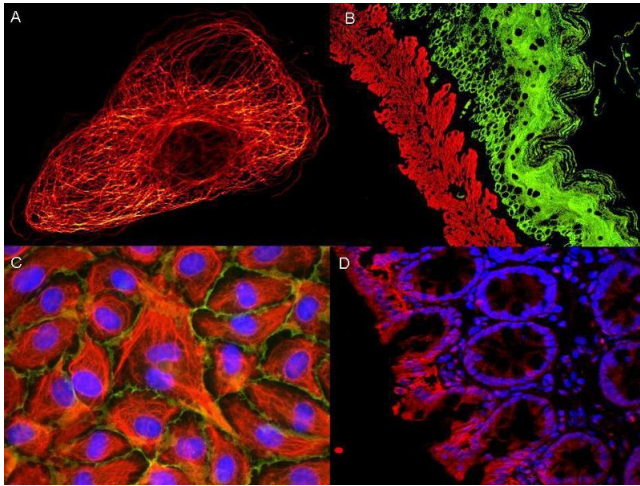
Storage Comment: Store vial at -20 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. This product is stable for several weeks at 0 °C as an undiluted liquid.

Expiry Date: 12 months

## Publications

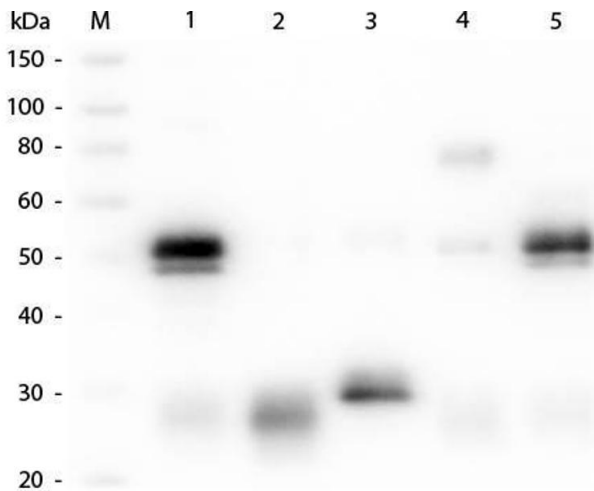
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Product cited in: Gingras, Raught, Gygi, Niedzwiecka, Miron, Burley, Polakiewicz, Wyslouch-Cieszynska, Aebersold, Sonenberg: "Hierarchical phosphorylation of the translation inhibitor 4E-BP1." in: **Genes & development**, Vol. 15, Issue 21, pp. 2852-64, (2001) ([PubMed](#)).



### Immunofluorescence

Image 1.



### Western Blotting

**Image 2.** Western Blot of Anti-Rabbit IgG (H&L) (GOAT) Antibody (Min X Bv, Ch, Gt, GP, Ham, Hs, Hu, Ms, Rt & Sh Serum Proteins) . Lane M: 3  $\mu$ l Molecular Ladder. Lane 1: Rabbit IgG whole molecule . Lane 2: Rabbit IgG F(ab) Fragment . Lane 3: Rabbit IgG F(c) Fragment . Lane 4: Rabbit IgM Whole Molecule . Lane 5: Normal Rabbit Serum . All samples were reduced. Load: 50 ng per lane. Block: ABIN925618 for 30 min at RT. Primary Antibody: Anti-Rabbit IgG (H&L) (GOAT) Antibody (Min X Bv, Ch, Gt, GP, Ham, Hs, Hu, Ms, Rt & 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 50 kDa for Rabbit IgG and Serum, 25 kDa for F(c) and F(ab), 70 and 23 kDa for IgM. Rabbit F(c) migrates slightly higher.