

Datasheet for ABIN964962

**Goat anti-Mouse IgG (Heavy & Light Chain) Antibody (Atto 594) - Preadsorbed**[Go to Product page](#)**2** Images**1** Publication

## Overview

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

## Product Details

Immunogen:	Immunogen: Mouse IgG whole molecule
Isotype:	IgG
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse IgG and Mouse Serum.
Characteristics:	<p>Anti-Mouse 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

platforms.

Purification: Preadsorption: Solid phase absorption

Labeling Ratio: 3.0

## Target Details

Target: IgG

Abstract: [IgG Products](#)

Target Type: Antibody

Background: Synonyms: Goat Anti-Mouse IgG Antibody ATTO594 Conjugation, Goat Anti-Mouse IgG ATTO 594 Conjugated Antibody

Background: Anti-Mouse IgG ATTO 594 Antibody generated in goat detects reactivity to Mouse 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 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

Application Notes: Application Note: Anti-Mouse 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

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

Restrictions: For Research Use only

## Handling

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.  
This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below.  
Product is photosensitive and should be protected from light.

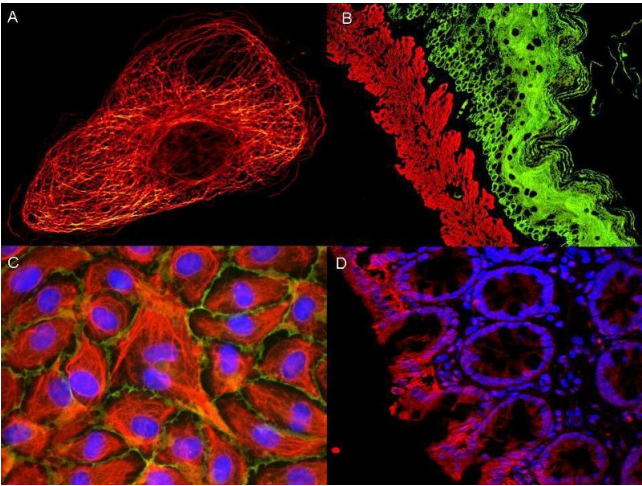
Storage: RT, 4 °C, -20 °C

Storage Comment: Store vial at -20 °C or below prior to opening. Store the vial at -20 °C or below after dilution.

Expiry Date: 12 months

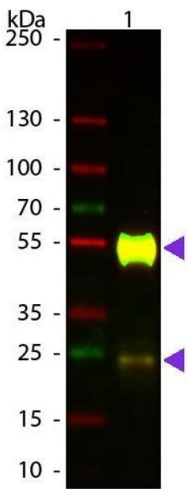
## Publications

Product cited in: Purkey, Woolfrey, Crosby, Stich, Chick, Aoto, DellAcqua: "AKAP150 Palmitoylation Regulates Synaptic Incorporation of Ca<sup>2+</sup>-Permeable AMPA Receptors to Control LTP." in: **Cell reports**, Vol. 25, Issue 4, pp. 974-987.e4, (2018) ([PubMed](#)).



Immunofluorescence

Image 1.



Western Blotting

**Image 2.** Western Blot of ATTO 594 conjugated Goat anti-Mouse IgG Pre-adsorbed secondary antibody. Lane 1: Mouse IgG. Lane 2: none. Load: 50 ng per lane. Primary antibody: none. Secondary antibody: ATTO 594 goat secondary antibody at 1:1,000 for 60 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 25 & 55 kDa, 25 & 55 kDa for Mouse IgG. Other band(s): none.