



Datasheet for ABIN1118519

Goat anti-Mouse IgG1 (Heavy Chain) Antibody (Atto 647N) - Preadsorbed



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Overview

Quantity:	500 µg
Target:	IgG1
Binding Specificity:	Heavy Chain
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	Atto 647N
Application:	Western Blotting (WB), Flow Cytometry (FACS), FLISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: Mouse IgG1 heavy chain Immunogen Type: Native Protein
Isotype:	IgG
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse Serum and Mouse IgG. Specificity was confirmed by ELISA at less than 0.5 % of target signal.
Cross-Reactivity:	Mouse (Murine)
Characteristics:	ATTO Dye Conjugated Secondary Antibodies are 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. When choosing a secondary antibody,

Product Details

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.

Purification: Preadsorption: Solid phase absorption

Labeling Ratio: 1.3

Target Details

Target: IgG1

Abstract: [IgG1 Products](#)

Target Type: Antibody

Background: Synonyms: Goat anti-mouse IgG1 antibody ATTO647N conjugation, goat anti-mouse IgG1 (gamma 1) ATTO 647N conjugated antibody
Background: Anti-Mouse IgG1 ATTO 647N Antibody generated in goat detects reactivity to Mouse IgG1 (Gamma 1 chain). Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75 % of serum immunoglobulins. IgG1 chain constitutes 66 % of the IgG subclass and has a high affinity for binding to the Fc receptor of phagocytic cells. 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: ATTO Dye Conjugated Secondary Antibodies are 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

Flow Cytometry Dilution: 1:500 - 1:2,500

Western Blot Dilution: >1:10,000

IF Microscopy Dilution: >1:5,000

Comment: The emission spectra for this ATTO conjugate matches the principle output wavelengths of

Application Details

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.
Product is photosensitive and should be protected from light.

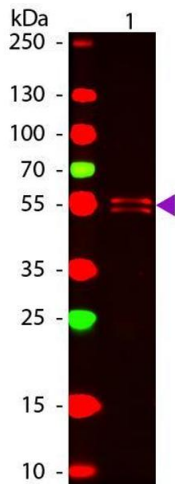
Storage: RT, 4 °C, -20 °C

Storage Comment: Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -24 °C or below. This product is stable for several weeks at 4 °C as an undiluted liquid.

Publications

Product cited in: Schilling, Ali, Leonhardt, Borst, Pujol-Martí: "Transcriptional control of morphological properties of direction-selective T4/T5 neurons in Drosophila." in: **Development (Cambridge, England)**, Vol. 146, Issue 2, (2019) ([PubMed](#)).

Hruska, Henderson, Le Marchand, Jafri, Dalva: "Synaptic nanomodules underlie the organization and plasticity of spine synapses." in: **Nature neuroscience**, Vol. 21, Issue 5, pp. 671-682, (2019) ([PubMed](#)).



Western Blotting

Image 1. Western Blot of ATTO 647N conjugated Goat anti-Mouse IgG1 (gamma 1 chain) Pre-adsorbed secondary antibody. Lane 1: Mouse IgG1. Lane 2: none. Load: 50 ng per lane. Primary antibody: none. Secondary antibody: ATTO 647N goat secondary antibody at 1:1,000 for 60 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 55 kDa, 55 kDa for Mouse IgG1. Other band(s): none.