Datasheet for ABIN1118483

Goat anti-Mouse IgG2a Antibody (Atto 425)

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Overview

Quantity:	500 µg
Target:	IgG2a
Reactivity:	Mouse
Host:	Goat
Clonality:	Polyclonal
Conjugate:	Atto 425
Application:	Flow Cytometry (FACS), Western Blotting (WB), FLISA, Dot Blot (DB), Fluorescence Microscopy (FM)

Product Details

Purpose:	Mouse IgG2a Antibody ATTO 425 Conjugated Pre-adsorbed
Immunogen:	Immunogen: Mouse IgG2a heavy chain Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Minimal crossreactivity against Bv, Hu, and Rb Serum Proteins Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Mouse Serum and Mouse IgG2a. Specificity was confirmed by ELISA at less than 1 % cross-reactivity against other mouse heavy or light chain isotypes. No reaction was observed against Bovine, Human, and Rabbit Serum Proteins. Specificity was confirmed by ELISA at less than 1 % of target signal.
Characteristics:	Anti-Mouse IgG1 ATTO 425 Antibody generated in goat detects reactivity to Mouse IgG1

Product Details

	(Gamma 1 chain).
Purification:	MOUSE IgG2a Antibody was prepared from monospecific antiserum by immunoaffinity chromatography using antigens coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities.

Target Details

Target:	IgG2a
Abstract:	IgG2a Products
Target Type:	Antibody
Background:	Secreted as part of the adaptive immune response by plasma B cells, immunoglobulin G constitutes 75 % of serum immunoglobulins. IgG2, the second largest of IgG isotypes, comprises almost 25 % of IgG and has a low 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: Mouse IgG2a secondary antibody is available in a variety of formats. Anti-Mouse IgG2a ATTO 425 Antibody has been tested by dot blot. ATTO 425 conjugations 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. Flow Cytometry Dilution: 1:500 - 1:2,500 Western Blot Dilution: 1:4,000 - 1:20,000 FLISA Dilution: >1:20,000 IF Microscopy Dilution: >1:5,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 500

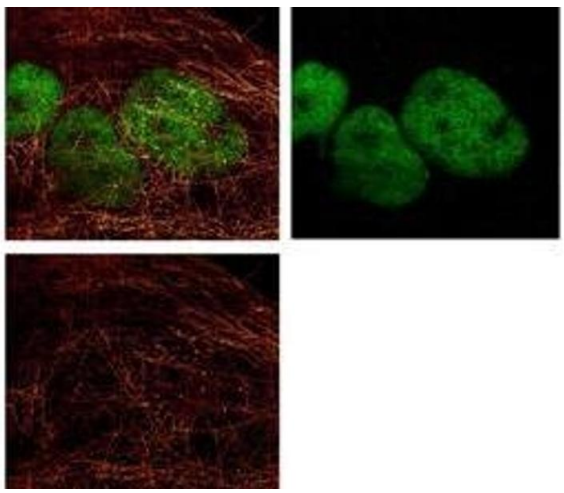
Handling

	µL
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.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial 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. This product 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:	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).

Images



Fluorescence Microscopy

Image 1. ATTO 425 conjugated anti-Mouse IgG was used to demonstrate 2 color STED immunofluorescence microscopy. Methanol fixed A431 cells were blocked with normal goat serum. The cells were then probed with 0.4 µg/mL final concentration of anti-a-tubulin and detected with 0.2 µg/mL ATTO 425 conjugated anti-MOUSE IgG [GOAT] (610-151-121) secondary antibody (colored RED). Also shown in this 2-color STED image is Rockland's Anti-HDAC-

1 [RABBIT] (p/n 600-401-879) detected with DyLight™488 conjugated Anti-RABBIT IgG [GOAT] secondary antibody (colored GREEN). Image courtesy of Myriam Gastard, Leica Microsystems, USA.

