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Anti-MOUSE IgG2a (ATTO 425 Conjugated) Pre-adsorbed Secondary Antibody

Goat Polyclonal, ATTO 425
Catalog # ASR3224

Product Information

Description	Anti-MOUSE IgG2a (Gamma 2a chain) (GOAT) Antibody ATTO 425 Conjugated (Min Cross Bv, Hu, and Rb Serum Proteins)
Host	Goat
Conjugate	ATTO 425
FP Value	2.3 moles ATTO 425 per mole of IgG
Target Species	Mouse
Reactivity	Mouse
Clonality	Polyclonal
Application	IF
Physical State	Lyophilized
Host Isotype	IgG
Target Isotype	IgG2a
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Mouse IgG2a heavy chain
Reconstitution Volume	500 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Sodium Azide

Additional Information

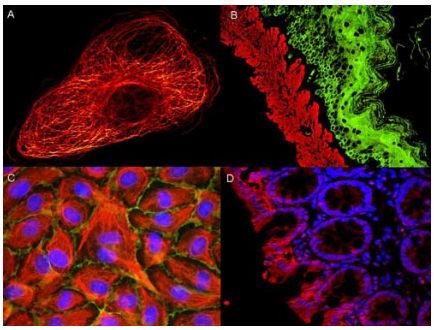
Shipping Condition	Ambient
Application Note	Anti-Mouse IgG2a secondary antibody is suitable for ELISA, Immunohistochemistry western blotting as well as other anti IgG2a antibody based assays. The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.
Purity	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. 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.
Storage Condition	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.
Precautions Note	This product is for research use only and is not intended for therapeutic or diagnostic applications.

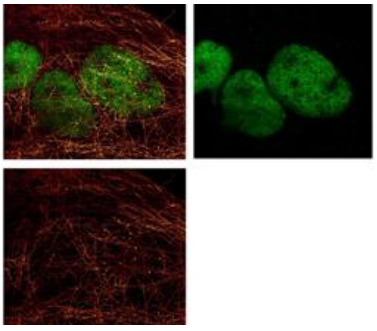
Background

Mouse IgG2a secondary antibody is available in a variety of formats. 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.

Images



ATTO ® dyes can be used for multicolor immunofluorescent detection with low background and high signal. Examples shown are: A. Tubulin in PtK2- male Rat Kangaroo Kidney Epithelial Cells was detected using ATTO 532 labeled secondary antibody. B. Muscle alpha-actin was stained with a mouse primary antibody and ATTO 488 anti-mouse IgG (green) while Cytokeratin was stained with polyclonal rabbit anti-cytokeratin and ATTO 647N anti-rabbit IgG (red). C. HUVEC (Human umbilical vein endothelial cells were stained with anti-Vimentin-ATTO 532 (green), anti-E-Cadherin-ATTO 655 (red) and DAPI (blue). D. Rat colon sections were stained with Anti-Aquaporin 3-ATTO 594 antibody. Hoechst 33342 (blue) is used as counterstain. Images provided courtesy of Dr. J□rg Reichwein, ATTO-TEC GmbH



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 Abcepta'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.