Datasheet for ABIN965007

Goat anti-Rat IgG (Heavy & Light Chain) Antibody (Atto 647N) - Preadsorbed

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Overview

Quantity:	100 µg
Target:	IgG
Binding Specificity:	Heavy & Light Chain
Reactivity:	Rat
Host:	Goat
Clonality:	Polyclonal
Conjugate:	Atto 647N
Application:	Western Blotting (WB), FLISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: Rat IgG whole molecule
Isotype:	IgG
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum, Rat IgG and Rat Serum.
Characteristics:	Anti-Rat IgG (H&L) conjugated to ATTO 647N 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. 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

Product Details

	platforms.
Purification:	Preadsorption: Solid phase absorption
Labeling Ratio:	1.68

Target Details

Target:	IgG
Abstract:	IgG Products
Target Type:	Antibody
Background:	Synonyms: Goat anti-Rat IgG ATTO647N Conjugated Antibody, Goat anti-Rat IgG Antibody ATTO 647N Conjugation Background: Anti-Rat IgG (H&L) conjugated to ATTO 647N 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.

Application Details

Application Notes:	Application Note: 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
Comment:	The emission spectra for this ATTO conjugate matches the principle output wavelengths of most common fluorescence instrumentation.
Restrictions:	For Research Use only

Handling

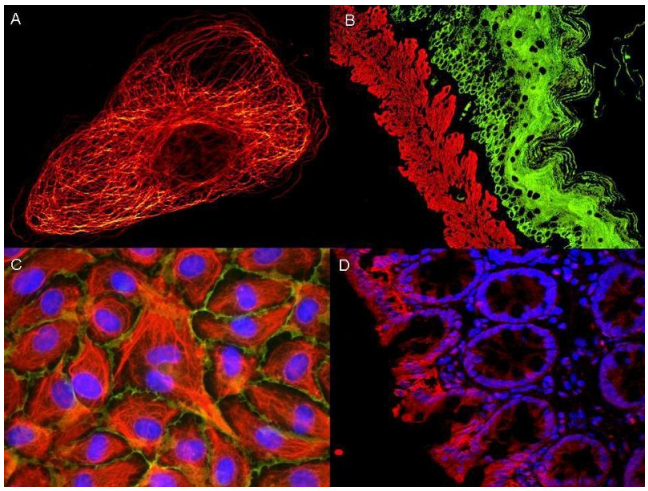
Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 500 µL Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Handling

	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.
Expiry Date:	12 months

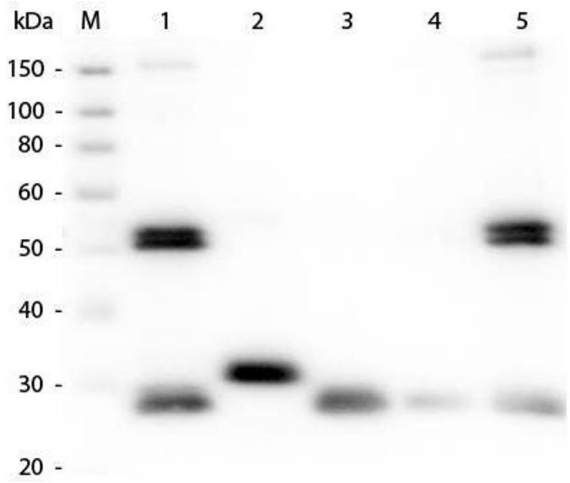
Publications

Product cited in:	Meissner, Grimm, Johnston, Sutcliffe, Ng, Jefferis, Cachero, Lavis, Malkesman: "Optimization of fluorophores for chemical tagging and immunohistochemistry of Drosophila neurons." in: **PLoS ONE**, Vol. 13, Issue 8, pp. e0200759, (2019) (PubMed). Dolan, Frechter, Bates, Dan, Huoviala, Roberts, Schlegel, Dhawan, Tabano, Dionne, Christoforou, Close, Sutcliffe, Giuliani, Li, Costa, Ihrke, Meissner, Bock, Aso, Rubin, Jefferis: "Neurogenetic dissection of the Drosophila lateral horn reveals major outputs, diverse behavioural functions, and interactions with the mushroom body." in: **eLife**, Vol. 8, (2019) (PubMed). Turner-Evans, Wegener, Rouault, Franconville, Wolff, Seelig, Druckmann, Jayaraman: "Angular velocity integration in a fly heading circuit." in: **eLife**, Vol. 6, (2018) (PubMed). Wolff, Rubin: "Neuroarchitecture of the Drosophila central complex: A catalog of nodulus and asymmetrical body neurons and a revision of the protocerebral bridge catalog." in: **The Journal of comparative neurology**, Vol. 526, Issue 16, pp. 2585-2611, (2018) (PubMed). von Reyn, Nern, Williamson, Breads, Wu, Namiki, Card: "Feature Integration Drives Probabilistic Behavior in the Drosophila Escape Response." in: **Neuron**, Vol. 94, Issue 6, pp. 1190-1204.e6, (2017) (PubMed).



Immunofluorescence

Image 1.



Western Blotting

Image 2. Western Blot of Anti-Rat IgG (H&L) (GOAT) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rb & Sh Serum Proteins) . Lane M: 3 µl Molecular Ladder. Lane 1: Rat IgG whole molecule . Lane 2: Rat IgG F(c) Fragment . Lane 3: Rat IgG Fab Fragment . Lane 4: Rat IgM Whole Molecule . Lane 5: Rat Serum . All samples were reduced. Load: 50 ng per lane. Block: ABIN925618 for 30 min at RT. Primary Antibody: Anti-Rat IgG (H&L) (GOAT) Antibody (Min X Bv Ch Gt GP Ham Hs Hu Ms Rb & 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 55 kDa for Rat IgG and Serum, 25 kDa for F(c) and Fab, 78 and 25 kDa for IgM. Rat F(c) migrates slightly higher.