Datasheet for ABIN7043572

anti-P2RX1 antibody (Extracellular Loop) (Atto 488)

2 Images

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Overview

Quantity:	50 µL
Target:	P2RX1
Binding Specificity:	AA 270-283, Extracellular Loop
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX1 antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CRPIYEFHGLYEEK, corresponding to amino acid residues 270-283 of human P2X1 receptor
Isotype:	IgG
Characteristics:	Anti-P2X1 Receptor (extracellular) Antibody (ABIN7043571, ABIN7045096 and ABIN7045097)) is a highly specific antibody directed against an epitope of the human protein. The antibody can be used in western blot, immunocytochemistry, immunohistochemistry, and indirect flow cytometry applications. It has been designed to recognize P2X1 receptor from rat, mouse, and human samples. \nAnti-P2X1 Receptor (extracellular)-ATTO Fluor-488 Antibody (#ABIN7043572) is directly labeled with an ATTO-488 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum

Product Details

	yield, and high photo-stability. The ATTO-488 label is analogous to the well known dye fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-P2X1 Receptor (extracellular)-ATTO Fluor-488 Antibody has been tested in live cell imaging and immunohistochemistry applications and is especially suited for experiments requiring simultaneous labeling of different markers.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	P2RX1
Alternative Name:	P2X1 Receptor (P2RX1 Products)
Background:	Alternative names: P2X1 Receptor, P2RX1, P2X purinoceptor 1
Gene ID:	5023
NCBI Accession:	NM_002558
UniProt:	P51575
Pathways:	Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

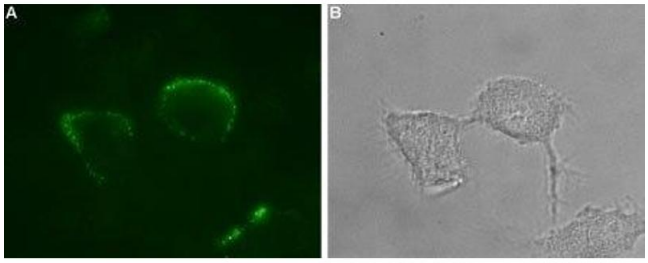
Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % 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:	RT,4 °C,-20 °C

Handling

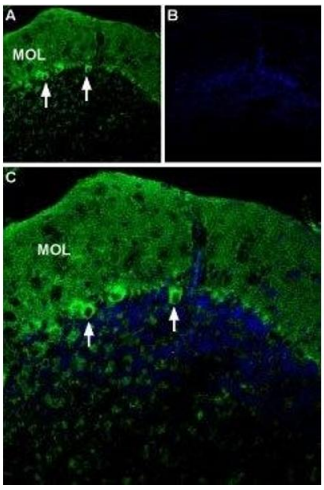
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Immunocytochemistry

Image 1. Expression of P2X1 receptor in rat PC12 cells - Cell surface detection of P2X1 receptor in intact living PC12 cells. A. Extracellular staining of cells using Anti-P2X1 receptor (extracellular)-ATTO Fluor-488 Antibody (ABIN7043572), (green), (1:20). B. Merge of extracellular staining with live view of the cells.



Immunohistochemistry

Image 2. Expression of P2X1 receptor in mouse cerebellum - Immunohistochemical staining of mouse cerebellum using Anti-P2X1 Receptor (extracellular)-ATTO Fluor-488 Antibody (ABIN7043572). A. Most of P2RX1 labeling (green) appears in fine processes in the molecular layer (MOL) and in Purkinje cells. B. Nuclear staining using DAPI. C. Merge of panels A and B.