

Datasheet for ABIN7043421

anti-P2RX3 antibody (Intracellular) (Atto 594)



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1 Image

Overview

Quantity:	50 µL
Target:	P2RX3
Binding Specificity:	AA 383-397, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX3 antibody is conjugated to Atto 594
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2X3 Receptor Conjugated to the Fluorescent Dye ATTO-594
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)VEKQSTDSGAYSIGH, corresponding to amino acid residues 383-397 of rat P2X3 receptor
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Mouse - identical, human - 13,15 amino acid residues identical
Characteristics:	Anti-P2X3 Receptor Antibody (ABIN7043420, ABIN7045090 and ABIN7045091) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in

Product Details

western blot, indirect flow cytometry, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize P2X3 receptor from rat, mouse, and human samples. \nAnti-P2X3 Receptor-ATTO Fluor-594 Antibody (ABIN7043421) is directly labeled with an fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The fluorescent label belongs to the class of Rhodamine dyes and can be used with fluorescent equipment typically optimized to detect Texas Red and Alexa-594. Anti-P2X3 Receptor-ATTO Fluor-594 Antibody is especially suited for experiments requiring simultaneous labeling of different markers.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: P2RX3

Alternative Name: P2RX3 ([P2RX3 Products](#))

Background: P2RX3, P2X purinoceptor 3,The P2X3 receptor belongs to the ligand-gated ion channel P2X receptor family, that consists of seven receptor subtypes named P2X1-P2X7 and is activated by extracellular ATP.^{1,2,3}All P2X subunits, with the exception of P2X6, can assemble to form homomeric or heteromeric functional channels.⁴⁻⁵ The different P2X receptors show distinct expression patterns. P2X1-6 has been found in the central and peripheral nervous system, while the P2X7 receptor is predominantly found in cells of the immune system. The P2X3 receptor is highly expressed on nociceptive sensory neurons in dorsal root ganglia (DRG) as a homomer or as a heteromer (P2X3/P2X2). ATP released from damaged cells activates the P2X3 receptor to initiate nociceptive signals.^{6,7} Involvement of ATP in the mechanism of chronic pain has been also suggested.^{7,8} P2X3 receptor is now becoming a possible target for the development of pain therapeutics.

Alternative names: P2X3 Receptor, P2RX3, P2X purinoceptor 3

Gene ID: 81739

NCBI Accession: [NM_002559](#)

UniProt: [P49654](#)

Application Details

Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A

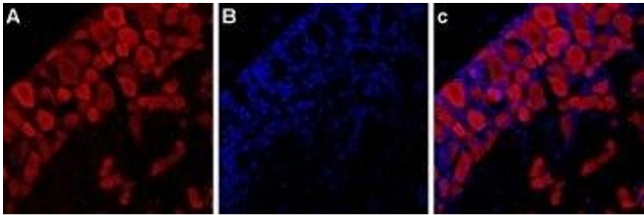
Application Details

	Application Dilutions Western blot wb: N/A
Comment:	Negative Control: (ABIN7236206) Blocking Peptide: (ABIN7236206)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	50 µL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 1 % BSA with 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:	4 °C,-20 °C
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



Immunohistochemistry

Image 1. Expression of P2RX3 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) using Anti-P2X3 Receptor-ATTO Fluor-594 Antibody (ABIN7043421). A. P2X3 staining (red) is detected in DRG neurons. B. Nuclear staining using DAPI as the counterstain (Blue). C. Merge images of A and B.