Datasheet for ABIN7043422

anti-P2RX3 antibody (Extracellular)

4 Images

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Overview

Quantity:	25 µL
Target:	P2RX3
Binding Specificity:	AA 65-79, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (IF), Live Cell Imaging (LCI), Immunochromatography (IC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2X3 Receptor
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KGFGRYANRVMDVSD, corresponding to amino acid residues 65-79 of rat P2X3 receptor
Isotype:	IgG
Specificity:	Extracellular
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Mouse - identical, human - 13,15 amino acid residues identical
Characteristics:	Anti-P2X3 Receptor (extracellular) Antibody (ABIN7043422, ABIN7045098 and ABIN7045099) is

Product Details

	a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, immunocytochemistry, and live cell imaging applications. It has been designed to recognize P2X3 receptor from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.
Grade:	KO Validated

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.1,2,3All 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 Dilutions Western blot wb: 1:200
Comment:	Cited Application: IHC|ICC|IFC

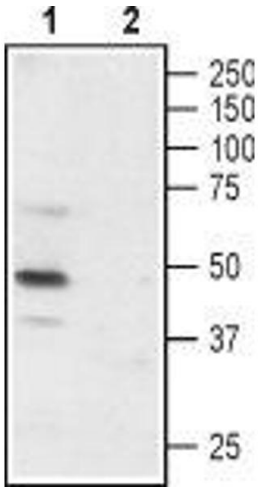
Application Details

	Negative Control: (ABIN7236210) Blocking Peptide: (ABIN7236210)
Restrictions:	For Research Use only

Handling

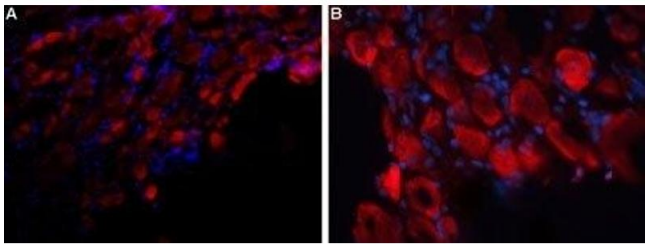
Format:	Lyophilized
Reconstitution:	Recosntitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C 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



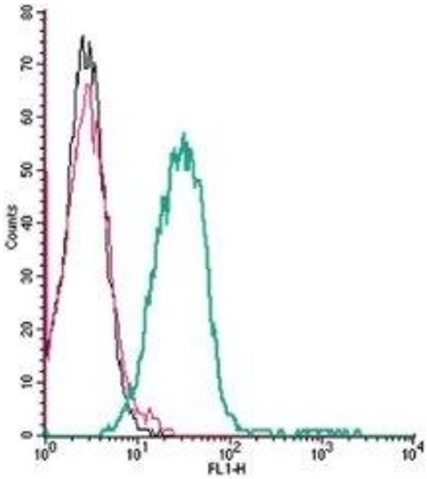
Western Blotting

Image 1. Western blot analysis of rat DRG: - 1. Anti-P2X3 Receptor (extracellular) Antibody (ABIN7043422, ABIN7045098 and ABIN7045099), (1:200).2. Anti-P2X3 Receptor (extracellular) Antibody, preincubated with P2X3 Receptor (extracellular) Blocking Peptide (#BLP-PR026).



Immunohistochemistry

Image 2. Expression of P2RX3 in rat DRG - Immunohistochemical staining of rat dorsal root ganglion (DRG) frozen sections using Anti-P2X3 Receptor (extracellular) Antibody (ABIN7043422, ABIN7045098 and ABIN7045099), followed by anti-rabbit-AlexaFluor-594 secondary antibody. P2RX3 staining (red) appears in neuronal cell bodies. DAPI was used as the counter stain (blue). A. X20 magnification. B. X40 magnification.



Flow Cytometry

Image 3. Cell surface detection of P2X3 Receptor by indirect flow cytometry in live intact mouse P815 mastocytoma cells: (black line) Cells.(red line) Cells + goat-anti-rabbit-FITC.(green line) Cells + Anti-P2X3 Receptor (extracellular) Antibody (ABIN7043422, ABIN7045098 and ABIN7045099), (2.5 µg) + goat-anti-rabbit-FITC.

Please check the product details page for more images. Overall 4 images are available for ABIN7043422.