Datasheet for ABIN7043420

anti-P2RX3 antibody (Intracellular)

2 Images

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Overview

Quantity:	25 µL
Target:	P2RX3
Binding Specificity:	AA 383-397, Intracellular
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), Immunochromatography (IC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2X3 Receptor
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

Product Details

	specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, indirect flow cytometry, immunohistochemistry, and immunocytochemistry applications. It has been designed to recognize P2X3 receptor from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	P2RX3
Alternative Name:	P2RX3 (P2RX3 Products)
Background:	P2RX3, P2X purinoceptor 3, ATP Receptor,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: IP|IHC Negative Control: (ABIN7236206)

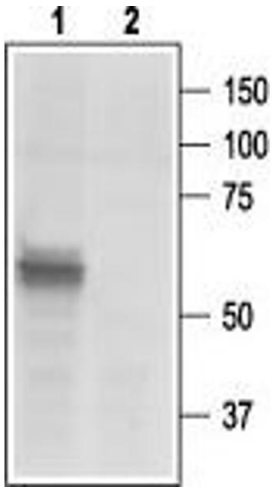
Application Details

	Blocking Peptide: (ABIN7236206)
Restrictions:	For Research Use only

Handling

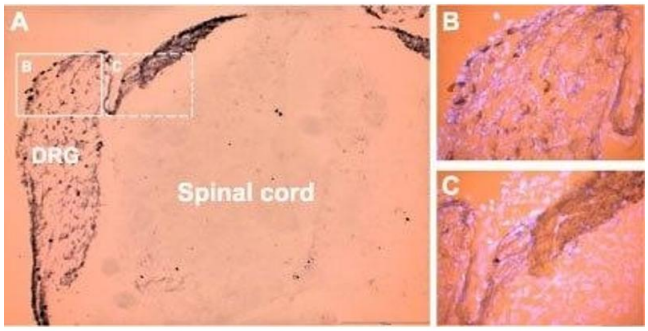
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after 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 lysates: - 1. Anti-P2X3 Receptor Antibody ((ABIN7043420, ABIN7045090 and ABIN7045091), (1:200).2. Anti-P2X3 Receptor Antibody, preincubated with P2X3 Receptor Blocking Peptide (#BLP-PR016).



Immunohistochemistry

Image 2. Expression of P2X3 Receptor in rat DRG neurons - Immunohistochemical staining of rat dorsal root ganglion (DRG) neurons with Anti-P2X3 Receptor Antibody (ABIN7043420, ABIN7045090 and ABIN7045091), (A). Cells within the DRG were stained (see solid line frame enlarged (B) as well as fibers and the area of entry of dorsal root into spinal cord (see dashed line frame enlarged (C). DAPI is used as the counterstain (in B and C).