

Datasheet for ABIN7237800
anti-P2RX2 antibody (C214S, Extracellular)



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Overview

Quantity:	25 µL
Target:	P2RX2
Binding Specificity:	AA 207-220, C214S, Extracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunochromatography (IC), Live Cell Imaging (LCI)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2X2 Receptor
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KSDYLKHSTFDQDS, corresponding to amino acid residues 207-220 of rat P2X2 with replacement of cysteine 214 (C214) with serine (*S)
Isotype:	IgG
Specificity:	Extracellular
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Rat,mouse - 13,14 amino acid residues identicalWill not recognize human P2X2
Characteristics:	Extracellular

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

Target: P2RX2

Alternative Name: P2RX2 ([P2RX2 Products](#))

Background: P2X purinoceptor 2, P2RX2, The P2X receptors belong to the ligand-gated ion channel family and are activated by extracellular ATP. The structure and function of the P2X receptors, which were mainly investigated using in vitro models, indicate their involvement in synaptic communication, cell death, and differentiation. Seven mammalian P2X receptor subtypes (P2X1-P2X7) have been identified and cloned.^{1,2,3} All P2X receptor subtypes share the same structure of intracellular N- and C-termini, two membrane-spanning domains and a large extracellular loop. All P2X subtypes can assemble to form homomeric or heteromeric functional channels with the exception of P2X6, which only seems to function as part of a heteromeric complex.⁴⁻⁹ The various mammalian P2X receptors show distinct expression patterns. P2X1-6 have been found in the central and peripheral nervous system, while the P2X7 receptor is predominantly found in cells of the immune system.⁴ The P2X2 receptor subtypes has a widespread tissue distribution in autonomic neurons, but it is generally found to be co-expressed with one or more subtypes. mRNA of the P2X1, P2X2, P2X3, and P2X6 receptors is found in neurons of dorsal root ganglia (DRG), trigeminal, and nodose ganglia where heteromeric P2X2/P2X3 receptors are found.¹⁰

Alternative names: P2X2 Receptor, P2X purinoceptor 2, P2RX2,

Gene ID: 114115

NCBI Accession: [NM_001282164](#)

UniProt: [P49653](#)

Pathways: [Skeletal Muscle Fiber Development](#), [Positive Regulation of Endopeptidase Activity](#)

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: Negative Control: (ABIN7236660)

Application Details

	Blocking Peptide: (ABIN7236660)
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).
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