

Datasheet for ABIN7237795
anti-P2RX2 antibody (Intracellular) (Atto 594)



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Overview

Quantity:	50 µL
Target:	P2RX2
Binding Specificity:	AA 457-472, Intracellular
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX2 antibody is conjugated to Atto 594
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2X2 Receptor Conjugated to the Fluorescent Dye ATTO-594
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)SQQDSTSTDPKGLAQL, corresponding to amino acid residues 457-472 of rat P2X2 receptor
Isotype:	IgG
Specificity:	Intracellular, C-terminus
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	14 amino acid residues identical, Guinea pig - 13, human - 12
Characteristics:	Intracellular, C-terminus
Purification:	Affinity purified on immobilized antigen.

Product Details

Grade: KO Validated

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: N/A

Comment: Cited Application: ICC

Application Details

	Negative Control: (ABIN7236656)
	Blocking Peptide: (ABIN7236656)

Restrictions:	For Research Use only
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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).