

Datasheet for ABIN7582056

anti-P2RX1 antibody (Extracellular) (APC)[Go to Product page](#)

Overview

Quantity:	50 µL
Target:	P2RX1
Binding Specificity:	AA 270-283, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX1 antibody is conjugated to APC
Application:	Live Cell Imaging (LCI), Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2X1 Receptor (extracellular) conjugated to the fluorescent dye Allophycocyanin (APC)
Immunogen:	CRPIYEFHGLYEEK, corresponding to amino acid residues 270-283 of human P2X1 receptor
Sequence:	CRPIYEFHGL YEEK
Isotype:	IgG
Specificity:	Extracellular loop
Predicted Reactivity:	Rat,mouse - 11 out of 14 amino acid residues identical
Characteristics:	Anti-P2X1 Receptor (extracellular) Antibody (ABIN7043571, ABIN7045096 and ABIN7045097) is a highly specific antibody directed against an extracellular epitope of the human protein. The antibody can be used in western blot, immunocytochemistry, immunohistochemistry, and

Product Details

indirect flow cytometry applications. It has been designed to recognize P2X1 receptor from rat, mouse, and human samples. Anti-P2X1 Receptor (extracellular)-APC Antibody (ABIN7043571, ABIN7045096 and ABIN7045097-APC) is directly conjugated to Allophycocyanin (APC) fluorophore. This conjugated antibody has been developed to be used in immunofluorescent applications such as direct flow cytometry and live cell imaging.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: P2RX1

Alternative Name: P2RX1 ([P2RX1 Products](#))

Background: P2RX1, P2X purinoceptor 1, ATP Receptor, 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, investigated mainly 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 cloned¹⁻³. 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 receptor 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 complex⁴⁻⁹. The various P2X receptor subtypes show distinct expression patterns. P2X1-6 have been found in the central and peripheral nervous systems, while the P2X7 receptor is predominantly found in cells of the immune system⁴. The P2X1 receptor is present in smooth muscle, cerebellum, dorsal horn spinal neurons, and platelets where it is suggested to play a regulatory role during in vivo homeostasis and thrombosis^{3,4,10,11}.

Gene ID: 5023

UniProt: [P51575](#)

Pathways: [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: Negative Control: (ABIN7582043)

Application Details

	Blocking Peptide: (ABIN7236652)
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).