Datasheet for ABIN7582063

anti-P2RY12 antibody (Extracellular) (FITC)

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Overview

Quantity:	50 µL
Target:	P2RY12
Binding Specificity:	AA 270-282, Extracellular
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RY12 antibody is conjugated to FITC
Application:	Live Cell Imaging (LCI), Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to P2Y12 Receptor Conjugated to the Fuorescent dye FITC
Immunogen:	CTAENTLFYVKES, corresponding to amino acid residues 270-282 of human P2RY12
Sequence:	CTAENTLFYV KES
Isotype:	IgG
Specificity:	3rd extracellular loop
Predicted Reactivity:	Rat,mouse - 12,13 amino acid residues identical
Characteristics:	Anti-P2Y12 Receptor (extracellular) Antibody (ABIN7581938) is a highly specific antibody directed against an extracellular epitope of the human P2RY12. The antibody can be used in western blot, live cell imaging and indirect flow cytometry applications. It has been designed to recognize P2RY12 from human, rat and mouse samples. Anti-P2Y12 Receptor (extracellular)-

Product Details

	FITC Antibody (ABIN7581938)-F) is directly conjugated to fluorescein isothiocyanate (FITC). This labeled antibody can be used in immunofluorescent applications such as direct flow cytometry using live cells.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	P2RY12
Alternative Name:	P2RY12 (P2RY12 Products)
Background:	P2Y purinoceptor 12, P2RY12, ADP-glucose receptor, Platelet ADP receptor, HORK3,The P2Y receptors are a widely expressed group of G-protein coupled receptors (GPCRs). P2Y receptors are activated by nucleotides which are extracellular signaling molecules that are released from damaged cells or secreted via non-lytic mechanisms during inflammation, ischemia or hypoxia.P2Y12 receptor, like all P2Y receptors, is a 7-membrane spanning protein coupled to a G protein. Most of the seven transmembrane helices of P2YR12 are not perpendicular to the plane of the membrane but are tilted or kinked. The carboxy-terminal helix VIII is parallel to the membrane lipid bilayer. The receptor contains 342 amino acid residues and two potential N-linked glycosylation sites at its extra-cellular amino terminus, which may modulate its activity.ADP and some of its analogues stimulate P2YR12-mediated inhibition of adenylyl cyclase through activation of the Gαi2 G protein subtype, although effective coupling may also occur to Gαi1 G and Gαi3 G.P2YR12 is an important cofactor of platelet aggregation and secretion induced by several agonists including collagen, TXA2, thrombin and specific antibodies cross-linking FcγRIIa receptors. It also plays an important role in shear-induced platelet aggregation and in platelet thrombus formation and stabilization on collagen-coated surfaces or ruptured atherosclerotic plaques under flow conditions.Inherited abnormalities of P2YR12 include an autosomal recessive disorder causing severe receptor deficiency. Due to this abnormality, ADP, even at very high concentrations, does not induce full and irreversible platelet aggregation, nor does it inhibit the stimulation of platelet adenylyl cyclase causing excessive bleeding and additional coagulative dysfunction.
Gene ID:	64805
UniProt:	Q9H244

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody

Application Details

	Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A Application Dilutions Western blot wb: N/A
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).