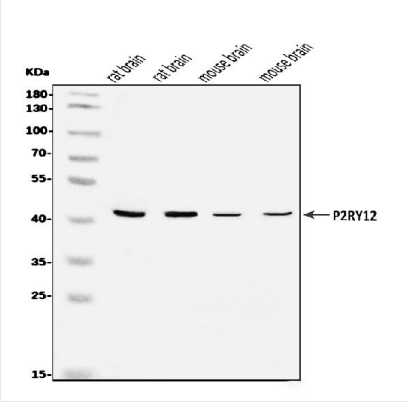
P2Y12/P2ry12 (P2RY12) Antibody – Rabbit Polyclonal

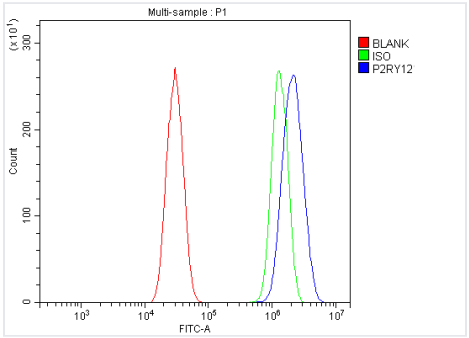
PRODUCT OVERVIEW

Product Name	P2Y12/P2ry12, Polyclonal Antibody
Full Product Name	Anti-P2Y12/P2ry12 Antibody Picoband
Product Gene Name	anti-P2RY12 antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (lot specific)
Specificity	Natural and recombinant Human AZGP1
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Molecular Weight	39,474 Da
3D Structure	ModBase 3D Structure for Q9CPV9
Product Categories/Family for anti-P2RY12 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-P2RY12 antibody	Flow Cytometry (FC/FACS), Western Blot (WB)
Application Notes for anti-P2RY12 antibody	WB: 0.25-0.5 ug/ml, Mouse, Rat FC/FACS: 1-3 ug/1x10^6 cells, Mouse Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG (#MBS176460) for Western blot.

Related Product Information for anti-P2RY12 antibody	Background: Zinc-alpha-2-glycoprotein is a protein that in humans is encoded by the AZGP1 gene. Alpha-2-glycoprotein, also known as AZGP1, belongs to the MHC class I family. It can be detected in body fluids such as serum, sweat, and seminal and breast cyst fluids. It has been shown that alpha-2-glycoprotein can stimulate lipolysis by adipocytes in vivo and in vitro. Thus it is believed that alpha-2-glycoprotein plays an important role in the regulation of body weight, and age-dependent changes in genetically influenced obesity, and it also regulates melanin production by normal and malignant melanocytes. Alpha-2-glycoprotein is produced by both white and brown fat adipocytes and may act in a local autocrine fashion in the reduction of adiposity in cachexia. Principle of the Assay: The Picokine™ Human AZGP1 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human AZGP1 with a 96-well strip plate that is pre-coated with antibody specific for AZGP1. The detection antibody is a biotinylated antibody specific for AZGP1. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human AZGP1 with immunogen: Expression system for standard: NS0; Immunogen sequence: Q21-S298. The kit is analytically validated with ready-to-use reagents. To measure Human AZGP1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human AZGP1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human AZGP1 in the sample.
Other Notes	Small volumes of anti-P2RY12 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for P2RY12 purchase	MBS1754879 is an antibody targeting P2RY12. Also known as Anti-P2Y12/P2ry12 Antibody Picoband. Reactive in Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-P2RY12 antibody
Figure 1. Western blot analysis of P2Y12/P2ry12 using anti-P2Y12/P2ry12 antibody (MBS1754879).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat brain tissue lysates,Lane 2: rat brain tissue lysates,Lane 3: mouse brain tissue lysates,Lane 4: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-P2Y12/P2ry12 antigen affinity purified polyclonal antibody (#MBS1754879) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for P2Y12/P2ry12 at approximately 40 kDa. The expected band size for P2Y12/P2ry12 is at 40 kDa.



Flow Cytometry (FC/FACS) of anti-P2RY12 antibody
Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-P2Y12/P2ry12 antibody (MBS1754879).Overlay histogram showing HEPA1-6 cells stained with MBS1754879 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P2Y12/P2ry12 Antibody (MBS1754879, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for P2RY12. It may not necessarily be applicable to this product.

NCBI GI #	169790983
NCBI GeneID	70839

NCBI Accession #	NP_081847.3
UniProt Primary Accession #	Q9CPV9
UniProt Related Accession #	Q9CPV9
GenBank Nucleotide #	NM_027571.3
NCBI Official Full Name	P2Y purinoceptor 12
NCBI Official Synonym Full Names	purinergic receptor P2Y, G-protein coupled 12
NCBI Official Symbol	P2ry12
NCBI Official Synonym Symbols	P2Y12; 2900079B22Rik; 4921504D23Rik
UniProt Protein Name	P2Y purinoceptor 12
Protein Family	P2Y purinoceptor
UniProt Gene Name	P2ry12
UniProt Synonym Gene Names	P2Y12
UniProt Entry Name	P2Y12_MOUSE
NCBI Protein Information	P2Y purinoceptor 12
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