

Rabbit P2X7/P2RX7 Polyclonal Antibody | anti-P2RX7 antibody

Anti-P2X7/P2RX7 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126125	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

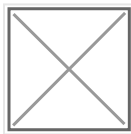
P2X7/P2RX7; Polyclonal Antibody; Anti-P2X7/P2RX7 Antibody Picoband; anti-P2RX7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CD160
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-P2RX7 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<10 pg/ml
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.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
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.



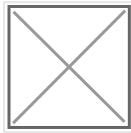
FCM/FACS (Flow Cytometry)
Figure 5. Flow Cytometry analysis of THP-1 cells using anti-P2X7/P2RX7 antibody (AAA126125).Overlay histogram showing THP-1 cells stained with AAA126125 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P2X7/P2RX7 Antibody (AAA126125, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)
Figure 4. IHC analysis of P2X7/P2RX7 using anti-P2X7/P2RX7 antibody (AAA126125).P2X7/P2RX7 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-P2X7/P2RX7 Antibody (AAA126125) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of P2X7/P2RX7 using anti-P2X7/P2RX7 antibody (AAA126125).P2X7/P2RX7 was detected in a paraffin-embedded section of human gall bladder adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-P2X7/P2RX7 Antibody (AAA126125) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of P2X7/P2RX7 using anti-P2X7/P2RX7 antibody (AAA126125).P2X7/P2RX7 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-P2X7/P2RX7 Antibody (AAA126125) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of P2X7/P2RX7 using anti-P2X7/P2RX7 antibody (AAA126125).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: 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-P2X7/P2RX7 antigen affinity purified polyclonal antibody (#AAA126125) 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 P2X7/P2RX7 at approximately 70 kDa. The expected band size for P2X7/P2RX7 is at 70 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-P2RX7 antibody	Background: CD160 antigen is a protein that in humans is encoded by the CD160 gene. CD160 is an 27 kDa glycoprotein which was initially identified with the monoclonal antibody BY55. Its expression is tightly associated with peripheral blood NK cells and CD8 T lymphocytes with cytolytic effector activity. The cDNA sequence of CD160 predicts a cysteine-rich, glycosylphosphatidylinositol-anchored protein of 181 amino acids with a single Iglike domain weakly homologous to KIR2DL4 molecule. CD160 is expressed at the cell surface as a tightly disulfide-linked multimer. RNA blot analysis revealed CD160 mRNAs of 1.5 and 1.6 kb whose expression was highly restricted to circulating NK and T cells, spleen and small intestine. Within NK cells CD160 is expressed by CD56dimCD16+ cells whereas among circulating T cells its expression is mainly restricted to TCRgd bearing cells and to TCRab+CD8brightCD95+CD56+CD28-CD27-cells. In tissues, CD160 is expressed on all intestinal intraepithelial lymphocytes. CD160 shows a broad specificity for binding to both classical and nonclassical MHC class I molecules. Principle of the Assay: The Picokine™ Human CD160 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CD160 with a 96-well strip plate that is pre-coated with antibody specific for CD160. The detection antibody is a biotinylated antibody specific for CD160. The capture antibody is monoclonal antibody from mouse and the detection antibody is biotinylated polyclonal antibody from goat. The kit contains recombinant Human CD160 with immunogen: Expression system for standard: CHO; Immunogen sequence: G25-S159. The kit is analytically validated with ready-to-use reagents. To measure Human CD160, 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 CD160 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 CD160 in the sample.
Product Categories/Family for anti-P2RX7 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	300068987
NCBI GeneID	5027
NCBI Accession #	NP_002553.3
NCBI GenBank Nucleotide #	NM_002562.5
UniProt Accession #	Q99572; O14991; Q4VKH8; Q4VKH9; Q4VKI0; Q4VKI1; Q4VKI2; A8K2Z0; E7EMK6; F5H6P2; F5H7E8; F8W951
Molecular Weight	68,585 Da
NCBI Official Full Name	P2X purinoceptor 7
NCBI Official Synonym Full Names	purinergic receptor P2X, ligand-gated ion channel, 7
NCBI Official Symbol	P2RX7
NCBI Official Synonym Symbols	P2X7
NCBI Protein Information	P2X purinoceptor 7; ATP receptor; P2Z receptor; P2X7 receptor; purinergic receptor P2X7 variant A
UniProt Protein Name	P2X purinoceptor 7
UniProt Gene Name	P2RX7
UniProt Synonym Gene Names	P2X7
UniProt Entry Name	P2RX7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

