

Rabbit P2RY12 / P2Y12 Polyclonal Antibody | anti-P2RY12 antibody

Rabbit Polyclonal to Human P2RY12 / P2Y12

CATALOG # AAA51593	HOST Rabbit	REACTIVITY Human, Monkey, Dog, Horse, Rabbit	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

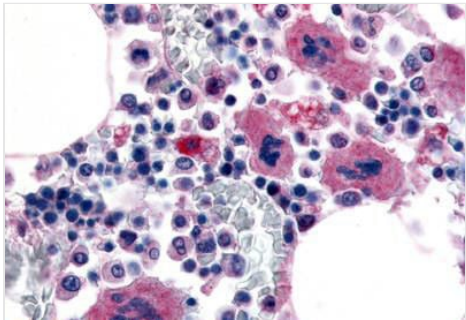
P2RY12 / P2Y12; Polyclonal Antibody; Rabbit Polyclonal to Human P2RY12 / P2Y12; Anti-P2RY12 / P2Y12 Antibody (Extracellular Domain) IHC-plus; P2RY12; ADP-glucose receptor; ADPG-R; p2Y(12)R; p2Y(ADP); p2T(AC); p2Y12; Platelet ADP receptor; SP1999; p2RY12; p2Y purinoceptor 12; Purinergic receptor P2RY12; BDPLT8; Gi-coupled ADP receptor HORK3; HORK3; p2Y(AC); p2Y(cyc); p2Y12 platelet ADP receptor; Human P2RY12; P2Y12; anti-P2RY12 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Dog, Horse, Rabbit
Clonality	Polyclonal
Specificity	Human P2RY12/ P2Y12. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except CACNA1F (56%).
Purity/Purification	Immunoaffinity purified
Form/Format	PBS, 0.1 % Sodium Azide
Concentration	1 mg/ml (varies by lot)
Applicable Applications for anti-P2RY12 antibody	IHC (Immunohistochemistry)
Family/Subfamily	GPCR/Purinergic
Immunogen Species	Human
Antigen Type	Synthetic peptide
Immunogen	P2RY12/ P2Y12 antibody was raised against synthetic 16 amino acid peptide from 2nd extracellular domain of human P2RY12/ P2Y12. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Panda, Dog, Horse, Rabbit (100%); Bat, Pig, Platypus (94%); Mouse, Hamster, Bovine, Opossum (88%); Rat, Elephant (81 %).
Epitope	Extracellular Domain
Predicted Reactivity	Bat, Pig
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
 Anti-P2RY12 / P2Y12 antibody IHC of human bone marrow, megakaryocytes.
 Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-P2RY12 antibody	P2Y12 is a Purinergic Receptor essential for the aggregation of blood platelets. There is evidence that mutations in P2Y12 cause a bleeding disorder, suggesting that knowledge of the P2Y12 receptor could advance the development of antiplatelet agents to treat cardiovascular diseases.
Product Categories/Family for anti-P2RY12 antibody	Family: GPCR; Subfamily: Purinergic

NCBI AND UNIPROT INFORMATION

NCBI GI #	12232483
NCBI GeneID	64805
NCBI Accession #	NP_073625.1
NCBI GenBank Nucleotide #	NM_022788.4
UniProt Accession #	Q9H244; Q546J7; D3DNJ5
Molecular Weight	39,439 Da
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	HORK3; P2Y12; ADPG-R; BDPLT8; SP1999; P2T(AC); P2Y(AC); P2Y(12)R; P2Y(ADP); P2Y(cyc)
NCBI Protein Information	P2Y purinoceptor 12; ADP-glucose receptor; purinergic receptor P2RY12; P2Y12 platelet ADP receptor; Gi-coupled ADP receptor HORK3; G-protein coupled receptor SP1999; putative G-protein coupled receptor
UniProt Protein Name	P2Y purinoceptor 12
UniProt Gene Name	P2RY12
UniProt Synonym Gene Names	HORK3; P2Y12; ADPG-R; P2Y(ADP)
UniProt Entry Name	P2Y12_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.