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Rabbit Anti-P2Y12 antibody

SL12072R

Product Name:	P2Y12
Chinese Name:	G蛋白偶联嘌呤受体p2y12抗体
Alias:	P2Y12R .ADP glucose receptor; ADP-glucose receptor; ADPG R; ADPG-R; ADPGR; BDPLT8; G protein coupled receptor SP1999; Gi coupled ADP receptor HORK 3; Gi coupled ADP receptor HORK3; HORK 3; HORK3; P2RY 12; P2RY12; P2T(AC); P2Y 12; P2Y purinoceptor 12; P2Y(12)R; P2Y(AC); P2Y(ADP); P2Y(cyc); P2Y12; P2Y12 platelet ADP receptor; P2Y12_HUMAN; Platelet ADP receptor; Purinergic receptor P2RY12; Purinergic receptor P2Y G protein coupled 12; Purinergic receptor P2Y12; Putative G protein coupled receptor; SP 1999; SP1999.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	39kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human P2Y12:141-240/342<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Nucleotides are emerging as important extracellular signaling molecules that mediate

several effects, such as proliferation, differentiation , chemotaxis and cytokine release. The P2 receptor family is activated by the binding of nucleotides and is divided into two subfamilies, P2X and P2Y. The P2X receptor family is comprised of ligand-gated ion channels that allow for the increased permeability of calcium into the cell in response to extracellular ATP. The P2Y receptor family are G protein-coupled receptors which mediate the effects of extracellular nucleotides, primarily through the activation of phospholipase C. To some extent, the P2Y receptors can also activate potassium channels or, alternatively, inhibit adenylate cyclase and N-type calcium channels in response to extracellular nucleotides. Human platelets express two G protein-coupled nucleotide receptors, P2Y1 and P2Y12. P2Y12 is a receptor for ADP and ATP coupled to G-proteins that inhibit the adenylyl cyclase second messenger system. P2Y12 is an integral membrane protein involved in platelet aggregation. It is highly expressed in platelets, with lower levels in the brain, lung, appendix, pituitary and adrenal gland.

Function:
Receptor for ADP and ATP coupled to G-proteins that inhibit the adenylyl cyclase second messenger system. Not activated by UDP and UTP. Involved in platelets aggregation.

Subcellular Location:
Cell membrane; Multi-pass membrane protein.

Tissue Specificity:
Highly expressed in the platelets, lower levels in the brain. Lowest levels in the lung, appendix, pituitary and adrenal gland. Expressed in the spinal cord and in the fetal brain.

DISEASE:
Defects in P2RY12 are the cause of P2RY12 deficiency (P2RY12D) [MIM:609821]. It is a condition characterized by severe impairment of platelet response to ADP and abnormal bleeding marked by excessive posttraumatic and postsurgical blood loss.

Similarity:
Belongs to the G-protein coupled receptor 1 family.

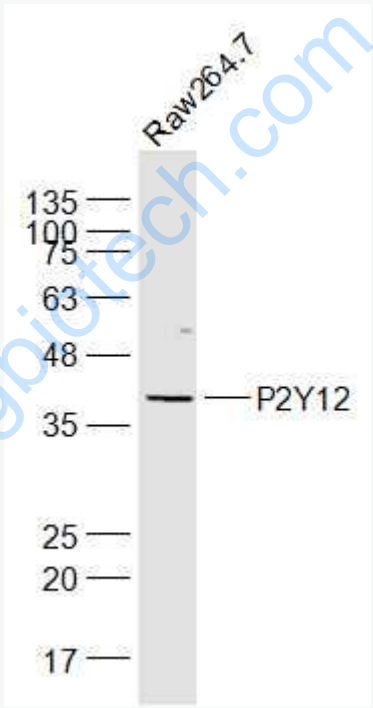
SWISS:
Q9H244

Gene ID:
64805

Database links:

Entrez Gene: 64805 Human

Omim: 600515 Human

	SwissProt: Q9H244 Human Unigene: 591281 Human **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Raw264.7(Mouse) Cell Lysate at 30 ug Primary: Anti-P2Y12 (SL12072R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 39 kD Observed band size: 39 kD