SunLong Biotech Co.,LTD
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Rabbit Anti-P2Y6 antibody

SL12075R

Product Name	P2Y6
Chinese Name	G 蛋白偶联嘌呤受体 p2y6 抗体
Alias	G coupled nucleotide receptor; G protein coupled 6; MGC15335; P2 purinoceptor; P2RY6; P2RY6_HUMAN; P2Y purinoceptor 6; P2Y6; P2Y6 receptor; PP2891; Purinergic receptor P2Y6; pyrimidinergic receptor P2Y; Pyrimidinergic receptor P2Y, G protein coupled, 6.
Research Area	Neurobiology Signal transduction Channel protein The cell membrane 受体 G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Sheep)
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	36kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human P2Y6: 201-300//328 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

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. The P2Y receptors are differentially expressed in several tissue types, such as heart, lung and brain. However, all P2Y receptors are expressed in leukocytes, which suggests a role for the P2Y receptor family in the activation of leukocytes and platelets in response to inflammation or vascular damage.

Function:
Receptor for extracellular UDP > UTP > ATP. The activity of this receptor is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system.

Product Detail

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

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

SWISS:
Q15077

Gene ID:
5031

Database links:

Entrez Gene: 539703 Cow

Entrez Gene: 485202 Dog

Entrez Gene: 5031 Human

Entrez Gene: 100512849 Pig

Omim: 602451 Human

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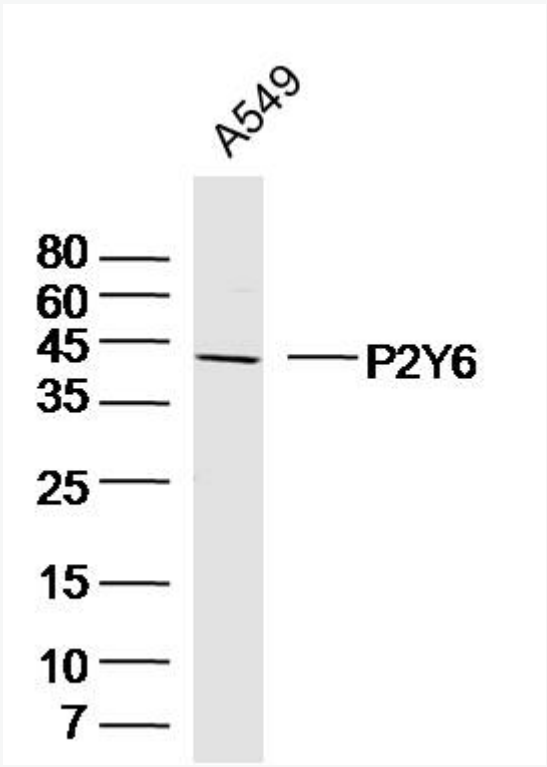
SwissProt: Q15077 Human

Unigene: 16362 Human

Product Picture



Sample: A549 Cell (Human) Lysate at 40 ug

Primary: Anti-P2Y6 (SL12075R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 36 kD

Observed band size: 40 kD