

Rabbit Anti-P2RX1 antibody

SL12107R

Product Name	P2RX1
Chinese Name	三磷酸腺苷受体受体 P2X1 抗体
Alias	P2X1; ATP receptor; ATP receptor; H sapiens mRNA for ATP receptor; H.sapiens mRNA for ATP receptor; P2 RX1; P2RX1; P2RX1 protein; P2RX1_HUMAN; P2X purinoceptor 1; P2X receptor subunit 1; P2X1; P2X1 receptor; Purinergic receptor; Purinergic receptor P2X ligand gated ion channel 1; Purinergic receptor P2X ligand-gated ion channel 1; Purinergic receptor P2X1.
Research Area	Cardiovascular Cell biology Neurobiology Apoptosis Channel protein The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit)
Applications	WB=1:500-2000 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	45kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human P2RX1: 51-150/399 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit)1M TBS(pH7.4) with 1% BSA, Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit)3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. 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.

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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 seven P2X receptors, P2X1-P2X7, form either homomeric or heteromeric channels or both. They are characterized by intracellular amino- and carboxy-termini. P2X receptors are expressed in a wide variety of tissues, including neurons, prostate, bladder, pancreas, colon, testis and ovary. The major function of the P2X receptors is to mediate synaptic transmissions between neurons and to other tissues via the binding of extracellular ATP, which acts as a neurotransmitter. The P2X receptors may be involved in the onset of necrosis or apoptosis after prolonged exposure to high concentrations of extracellular ATP.

Function:

Ligand-gated ion channel with relatively high calcium permeability. Binding to ATP mediates synaptic transmission between neurons and from neurons to smooth muscle. Seems to be linked to apoptosis, by increasing the intracellular concentration of calcium in the presence of ATP, leading to programmed cell death.

Product Detail

Subunit:

Homo- or heteropolymers (By similarity).

Subcellular Location:

Membrane; Multi-pass membrane protein.

Similarity:

Belongs to the P2X receptor family.

SWISS:

P51575

Gene ID:

5023

Database links:

[Entrez Gene: 5023](#) Human

[Entrez Gene: 18436](#) Mouse

[Entrez Gene: 25505](#) Rat

[Omim: 600845](#) Human

[SwissProt: P51575](#) Human

[SwissProt: P51576](#) Mouse

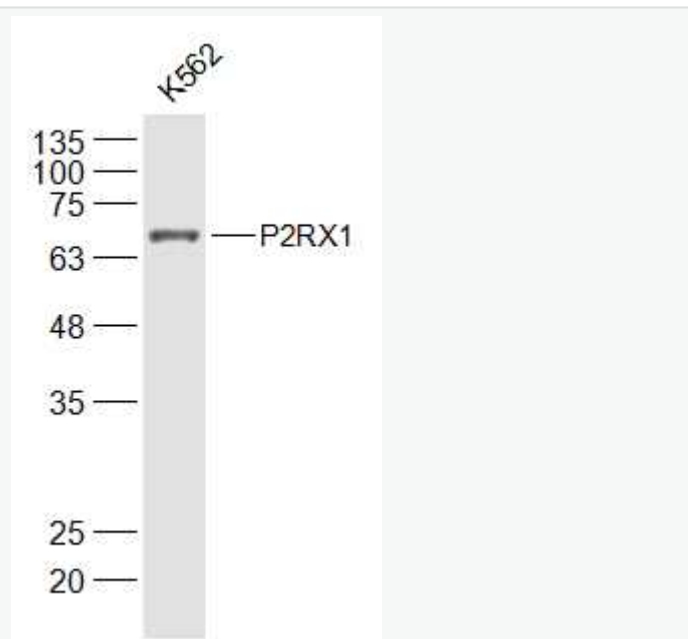
[SwissProt: P47824](#) Rat

[Unigene: 41735](#) Human

[Unigene: 25722](#) Mouse

[Unigene: 91176](#) Rat

Product Picture



Sample:

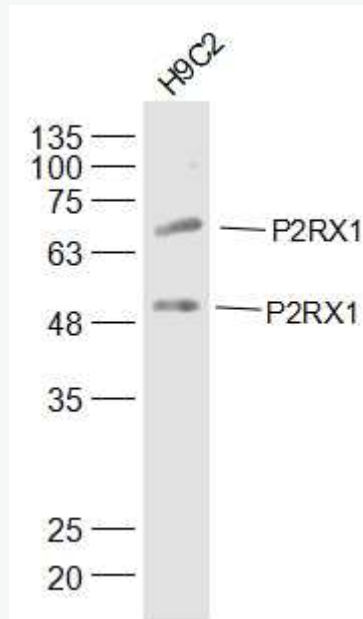
K562(Human) Cell Lysate at 30 ug

Primary: Anti-P2RX1 (SL12107R) at 1/500 dilution

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

Predicted band size: 45 kD

Observed band size: 50 kD



Sample:

H9C2(Rat) Cell Lysate at 30 ug

Primary: Anti-P2RX1 (SL12107R) at 1/500 dilution

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

Predicted band size: 45 kD

Observed band size: 50/65 kD