

嘌呤受体 P2X7 抗体

产品货号： mIR12106

英文名称： P2RX7

中文名称： 嘌呤受体 P2X7 抗体

别名： ATP receptor; P2X purinoceptor 7; P2X7; P2Z receptor; Purinergic receptor; purinergic receptor P2X, ligand gated ion channel 7; P2RX7_HUMAN.

研究领域： 神经生物学 通道蛋白 细胞膜受体

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Pig, Horse, Rabbit,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500

（石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 69kDa

细胞定位： 细胞膜

性状： Lyophilized or Liquid

浓度： 1mg/ml

免疫原： KLH conjugated synthetic peptide derived from human P2RX7:115-160/595 <Extracellular>

亚型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： 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

产品介绍： 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:

The product P2RX7 belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Activation of this nuclear receptor by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to changes in gene expression.

Subunit:

Functional P2XRs are organized as homomeric and heteromeric trimers. Interacts with LAMA3, ITGB2, ACTB, ACTN4, SVIL, MPP3, HSPA1, HSPCB, HSPA8, PIK230 and PTPRB.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Post-translational modifications:

Phosphorylation results in its inactivation.

ADP-ribosylation at Arg-125 is necessary and sufficient to activate P2RX7 and gate the channel (By similarity).

Palmitoylation of several cysteines in the C-terminal cytoplasmic tail is required for efficient localization to cell surface.

Similarity:

Belongs to the P2X receptor family.

SWISS:

Q99572

Gene ID:

5027

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

