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## P2RX4 Rabbit pAb

Catalog Number: bs-7690R

Target Protein: P2RX4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ICC/IF (1:100-500), ELISA (1:5000-10000)

Reactivity: Human (predicted:Mouse, Rat)

Predicted MW: 43 kDa

Entrez Gene: 5025

Swiss Prot: Q99571

Source: KLH conjugated synthetic peptide derived from human P2RX4: 238-338/388.

Purification: affinity purified by Protein A

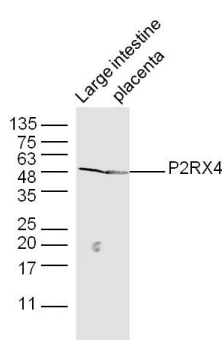
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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.

### VALIDATION IMAGES

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Sample: Large intestine (Mouse) Lysate at 40 ug Placenta (Mouse) Lysate at 40 ug Primary: Anti-P2RX4 (bs-7690R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 43 kD Observed band size: 48 kD

## PRODUCT SPECIFIC PUBLICATIONS

**[IF=5.714]** Zi Xuan Li. et al. Blocking P2X4 purinergic receptor attenuates alcohol-related liver fibrosis by inhibiting hepatic stellate cell activation through PI3K/AKT signaling pathway. INT IMMUNOPHARMACOL. 2022 Dec;113:109326 IHC,IF,WB ; Mouse, Rat . 36252487

**[IF=5.8]** Qi Changcun. et al. Elucidating the mechanisms underlying astrocyte-microglia crosstalk in hippocampal neuroinflammation induced by acute diquat exposure. ENVIRON SCI POLLUT R. 2024 Feb;;1-13 WB ; Mouse . 38305974

**[IF=4.432]** Guo-qing Xia. et al. The mechanism by which ATP regulates alcoholic steatohepatitis through P2X4 and CD39. Eur J Pharmacol. 2022 Feb;916:174729 WB,IF ; Mouse . 34973190

**[IF=4.3]** Wulin Liang. et al. Daphnetin Ameliorates Neuropathic Pain via Regulation of Microglial Responses and Glycerophospholipid Metabolism in the Spinal Cord. PHARMACEUTICALS-BASE. 2024 Jun;17(6):789 IHC,WB ; Rat . 38931456

**[IF=3.3]** Min Zhou. et al. Electroacupuncture improves allodynia and central sensitization via modulation of microglial activation associated P2X4R and inflammation in a rat model of migraine. MOL PAIN. ;(): WB ; Rat . 38744426