**bs-7690R** **[ Primary Antibody ]**

# P2RX4 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 5025 **SWISS:** Q99571

**Target:** P2RX4

**Immunogen:** KLH conjugated synthetic peptide derived from human P2RX4: 238-338/388. < Extracellular >

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**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.

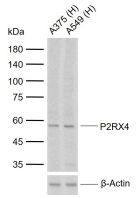
**Applications:** **WB** (1:500-2000)
**IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:100-500)
**ICC/IF** (1:100-500)
**ELISA** (1:5000-10000)

**Reactivity:** Human (predicted: Mouse, Rat)

**Predicted MW.:** 43 kDa

**Subcellular Location:** Cell membrane

## VALIDATION IMAGES




25 ug total protein per lane of various lysates (see on figure) probed with P2RX4 polyclonal antibody, unconjugated (bs-7690R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

## SELECTED CITATIONS


- **[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=4.6]** Chen Peng. et al. Analgesic Mechanism of Emodin in Neuropathic Pain Through Inhibiting P2X4 Purinoceptor Signaling. MOL NEUROBIOL. 2025 Apr;:1-18 IF ;Mouse. 40195215


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

- **[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

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