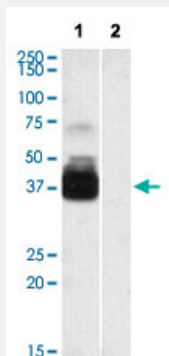


P2RX7 polyclonal antibody

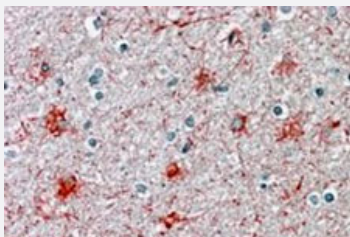
Catalog # PAB16250 Size 100 ug

Applications



Western Blot (Tissue lysate)

P2RX7 polyclonal antibody (Cat # PAB16250) staining (0.3 ug/mL) of human brain (frontal cortex) lysate (35 ug protein in RIPA buffer) with (Lane 2) and without (Lane 1) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

P2RX7 polyclonal antibody (Cat # PAB16250) (3.8 ug/mL) staining of paraffin embedded human brain cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of P2RX7.
Immunogen	A synthetic peptide corresponding to N-terminus of human P2RX7.
Sequence	YETNKVTRIQSMNY-C
Host	Goat
Theoretical MW (kDa)	68.5
Reactivity	Human

Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) Western Blot (1-3 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-6 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

P2RX7 polyclonal antibody (Cat # PAB16250) staining (0.3 ug/mL) of human brain (frontal cortex) lysate (35 ug protein in RIPA buffer) with (Lane 2) and without (Lane 1) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — P2RX7

Entrez GeneID	5027
Protein Accession#	NP_002553.2
Gene Name	P2RX7
Gene Alias	MGC20089, P2X7
Gene Description	purinergic receptor P2X, ligand-gated ion channel, 7
Omim ID	151400 602566

Gene Ontology

[Hyperlink](#)

Gene Summary

The product of this gene 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. Multiple alternatively spliced variants which would encode different isoforms have been identified although some fit nonsense-mediated decay (NMD) criteria. [provided by RefSeq]

Other Designations

ATP receptor|P2X purinoceptor 7|P2X7 receptor|P2Z receptor|purinergic receptor P2X7

Publication Reference

- [Activated microglia in ischemic stroke penumbra upregulate MCP-1 and CCR2 expression in response to lysophosphatidylcholine derived from adjacent neurons and astrocytes.](#)

Inose Y, Kato Y, Kitagawa K, Uchiyama S, Shibata N.

Neuropathology 2015 Jun; 35(3):209.

Application: IHC-P, ICC, Human, Mouse, Cerebral cortex, BV-2 cells

- [The human cathelicidin LL-37 modulates the activities of the P2X7 receptor in a structure-dependent manner.](#)

Tomasinsig L, Pizzirani C, Skerlavaj B, Pellegatti P, Gulinelli S, Tossi A, Di Virgilio F, Zanetti M.

The Journal of Biological Chemistry 2008 Nov; 283(45):30471.

Application: WB-Tr, Human, HEK 293 cells

Pathway

- [Calcium signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Agoraphobia](#)
- [Anemia](#)
- [Anxiety Disorders](#)
- [Arthritis](#)

- [Bacteremia](#)
- [Bipolar Disorder](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Crohn Disease](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
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- [Fractures](#)
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- [Osteolysis](#)
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- [Panic Disorder](#)
- [Phobic Disorders](#)
- [Postoperative Complications](#)
- [Prosthesis Failure](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Sleep Disorders](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tuberculosis](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)