

P2RX7 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP5674b**Specification**

P2RX7 Antibody (C-term) Blocking peptide - Product Information

Primary Accession [O99572](#)
Other Accession [NP_002553.2](#)

P2RX7 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 5027

Other Names

P2X purinoceptor 7, P2X7, ATP receptor, P2Z receptor, Purinergic receptor, P2RX7

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

P2RX7 Antibody (C-term) Blocking peptide - Protein Information

Name P2RX7

Function

Receptor for ATP that acts as a ligand-gated ion channel. Responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells. In the absence of its natural ligand, ATP, functions as a scavenger receptor in the recognition and engulfment of apoptotic cells (PubMed: [21821797](http://www.uniprot.org/citations/21821797), PubMed: [23303206](http://www.uniprot.org/citations/23303206)).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Widely expressed with highest levels in brain and immune tissues.

P2RX7 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

P2RX7 Antibody (C-term) Blocking peptide - Images

P2RX7 Antibody (C-term) Blocking peptide - Background

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.

P2RX7 Antibody (C-term) Blocking peptide - References

Kim, M., et al. EMBO J. 20(22):6347-6358(2001) Gartland, A., et al. J. Bone Miner. Res. 16(5):846-856(2001) Gu, B.J., et al. J. Biol. Chem. 276(14):11135-11142(2001) Buell, G.N., et al. Recept. Channels 5(6):347-354(1998) Rassendren, F., et al. J. Biol. Chem. 272(9):5482-5486(1997)