10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

P2RX7 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP5674b

Specification

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

Primary Accession	Q99572
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, PubMed: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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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 ofpurinoceptors for ATP. This receptor functions as a ligand-gatedion channel and is responsible for ATP-dependent lysis ofmacrophages through the formation of membrane pores permeable tolarge molecules. Activation of this nuclear receptor by ATP in thecytoplasm may be a mechanism by which cellular activity can becoupled 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)