

Goat Anti-P2RX7 / P2X7 receptor Antibody
Peptide-affinity purified goat antibody
Catalog # AF1770a

Specification

Goat Anti-P2RX7 / P2X7 receptor Antibody - Product Information

Application	WB, IHC
Primary Accession	Q99572
Other Accession	NP_002553 , 5027 , 18439 (mouse) , 29665 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	68585

Goat Anti-P2RX7 / P2X7 receptor Antibody - Additional Information

Gene ID 5027

Other Names

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

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-P2RX7 / P2X7 receptor Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-P2RX7 / P2X7 receptor Antibody - 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:<a href="http://www.uniprot.org/citations/23303206"

target="_blank">23303206).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

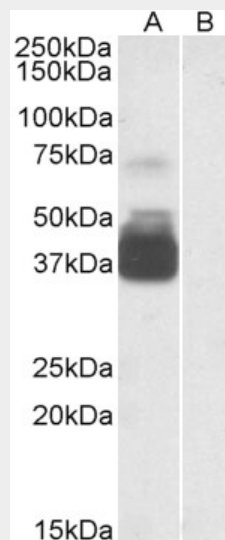
Widely expressed with highest levels in brain and immune tissues.

Goat Anti-P2RX7 / P2X7 receptor Antibody - Protocols

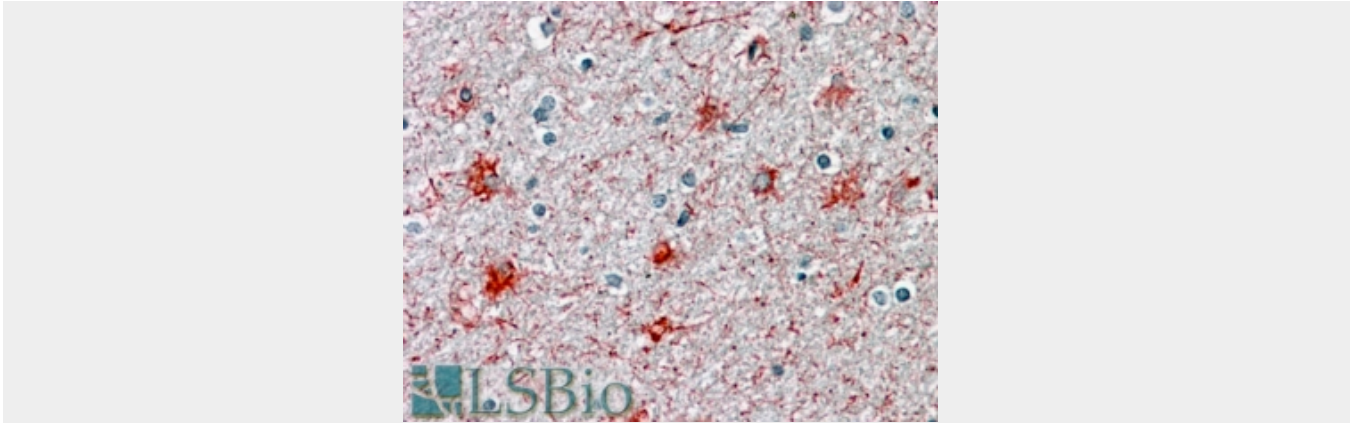
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-P2RX7 / P2X7 receptor Antibody - Images



AF1770a staining (0.3 μ g/ml) of Human Brain (Frontal Cortex) lysate (35 μ g protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Detected by chemiluminescence.



AF1770a (3.75µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-P2RX7 / P2X7 receptor Antibody - Background

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 have been identified, most of which fit nonsense-mediated decay (NMD) criteria.

Goat Anti-P2RX7 / P2X7 receptor Antibody - References

Association of P2X7 receptor +1513 (A-->C) polymorphism with tuberculosis in a Punjabi population. Sharma S, et al. *Int J Tuberc Lung Dis*, 2010 Sep. PMID 20819262.
Polymorphism in the p2x7 gene increases susceptibility to extrapulmonary tuberculosis in Turkish children. Tekin D, et al. *Pediatr Infect Dis J*, 2010 Aug. PMID 20661107.
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. *Diabetes Care*, 2010 Jul 13. PMID 20628086.
Evidence for associations between the purinergic receptor P2X(7) (P2RX7) and toxoplasmosis. Jamieson SE, et al. *Genes Immun*, 2010 Jul. PMID 20535134.
Temporal interleukin-1beta secretion from primary human peripheral blood monocytes by P2X7-independent and P2X7-dependent mechanisms. Ward JR, et al. *J Biol Chem*, 2010 Jul 23. PMID 20495003.