EB09509 - Goat Anti-P2RX7 / P2X7 receptor Antibody

Size: 100µg specific antibody in 200µl

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Research Use Only. Not for diagnostic or therapeutic use.

Target Protein

Principal Names: P2RX7, purinergic receptor P2X, ligand-gated ion channel, 7, MGC20089, P2X7, ATP receptor, P2X purinoceptor 7, P2X7 receptor, P2Z receptor, purinergic receptor P2X7
Official Symbol: P2RX7
Accession Number(s): NP_002553.3
Human GeneID(s): 5027
Non-Human GeneID(s): 18439 (mouse), 29665 (rat)

Immunogen

Peptide with sequence YETNKVTRIQSMNY-C, from the N Terminus of the protein sequence according to NP_002553.3.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:16000.
Western blot: Approx 37kDa and 70kDa band observed in Human Brain (Frontal Cortex) lysates (calculated MW of 68.6kDa according to NP_002553.2). Recommended concentration: 1-3µg/ml. Primary incubation was an 1 hour. An additional band of unknown identity was also consistently observed at 37kDa. This band was successfully blocked by incubation with the immunizing peptide.
IHC: In paraffin embedded Human Brain Cortex shows membranous staining of cell bodies and processes. Recommended concentration: 3-6µg/ml. Paraffin embedded Human Kidney. Recommended concentration: 3.75µg/ml.

Immunofluorescence: Strong expression of the protein seen in the cytoplasm and plasma membranes of HeLa cells. Recommended concentration: 10µg/ml. This antibody has been successfully used in IF on Mouse: Thaler R et al. (2015) PMID: 25491310.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

Species Reactivity

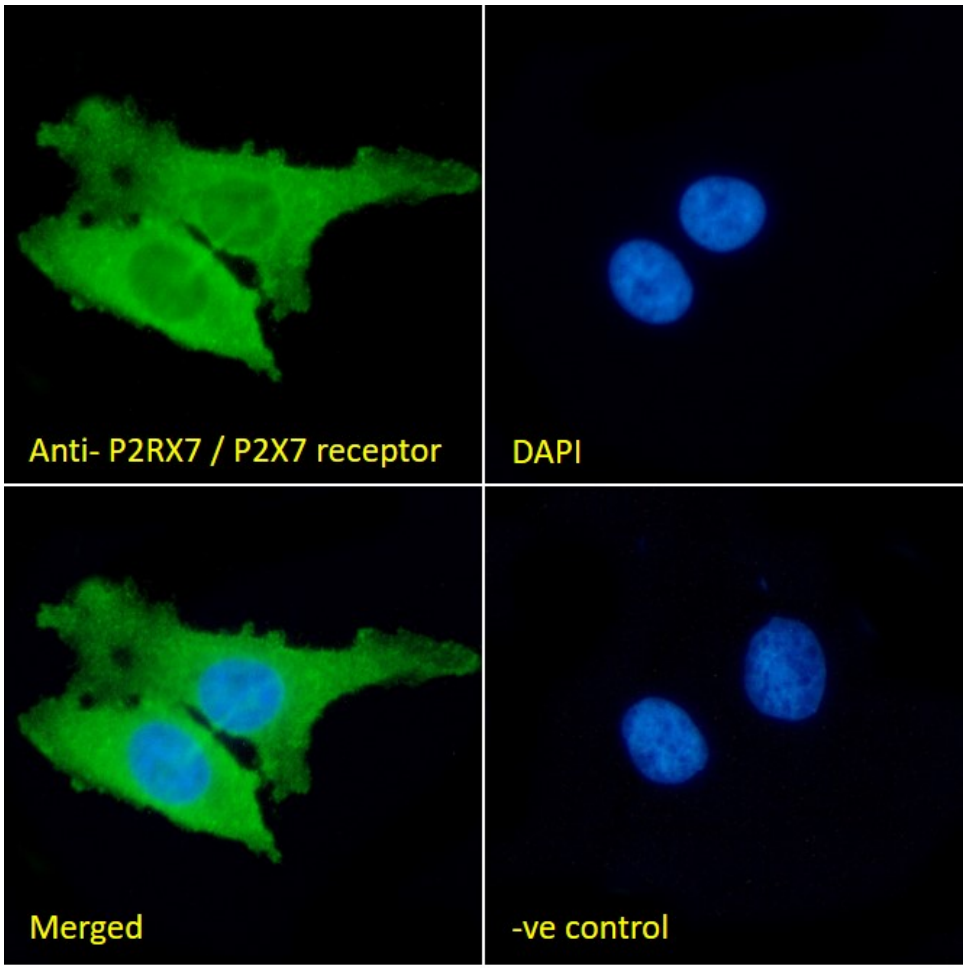
Tested: Human, Mouse
Expected from sequence similarity: Human, Mouse, Rat, Dog

Specific Reference

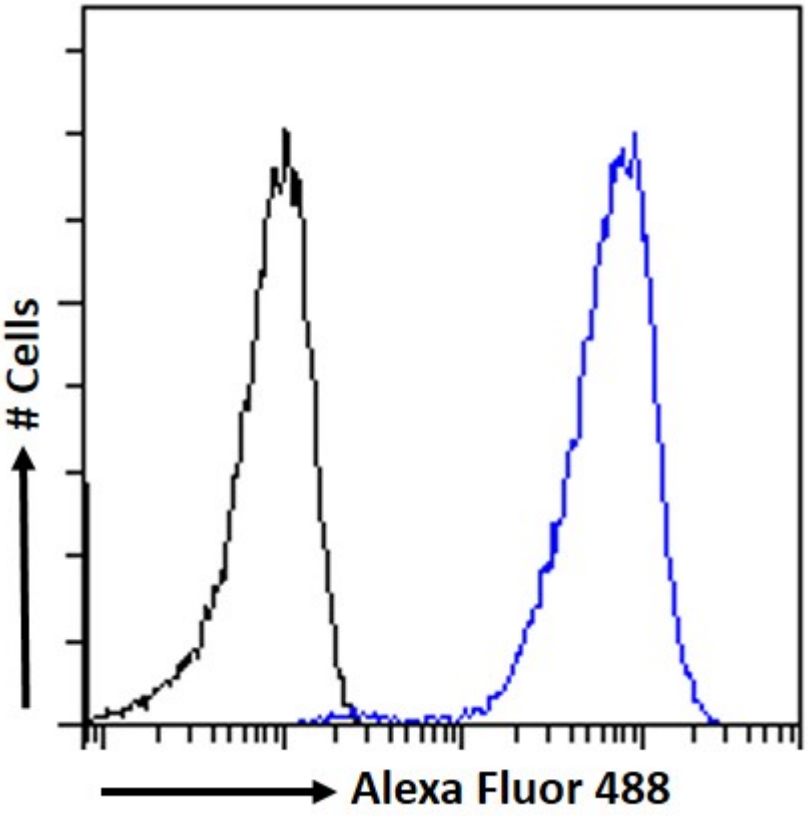
This antibody has been successfully used in IF on Mouse:
Thaler R, Sturmlechner I, Spitzer S, Riester SM, Rumpler M, Zwerina J, Klaushofer K, van Wijnen AJ, Varga F.
Acute-phase protein serum amyloid A3 is a novel paracrine coupling factor that controls bone homeostasis.

FASEB J. 2015 Apr;29(4):1344-59.
PMID: 25491310

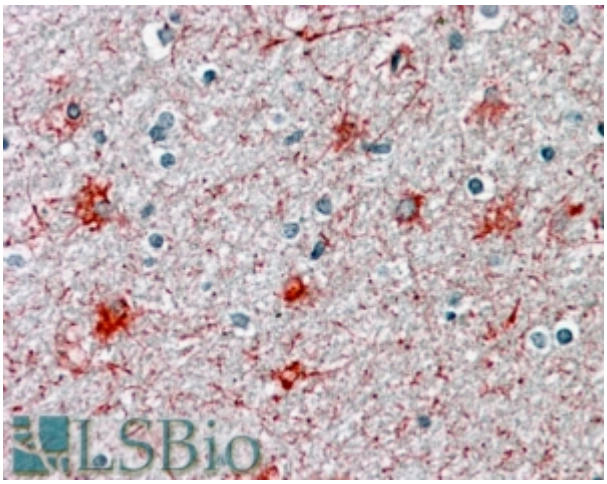
EB09509 (0.3µg/ml) staining of A431 (A) and HeLa (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



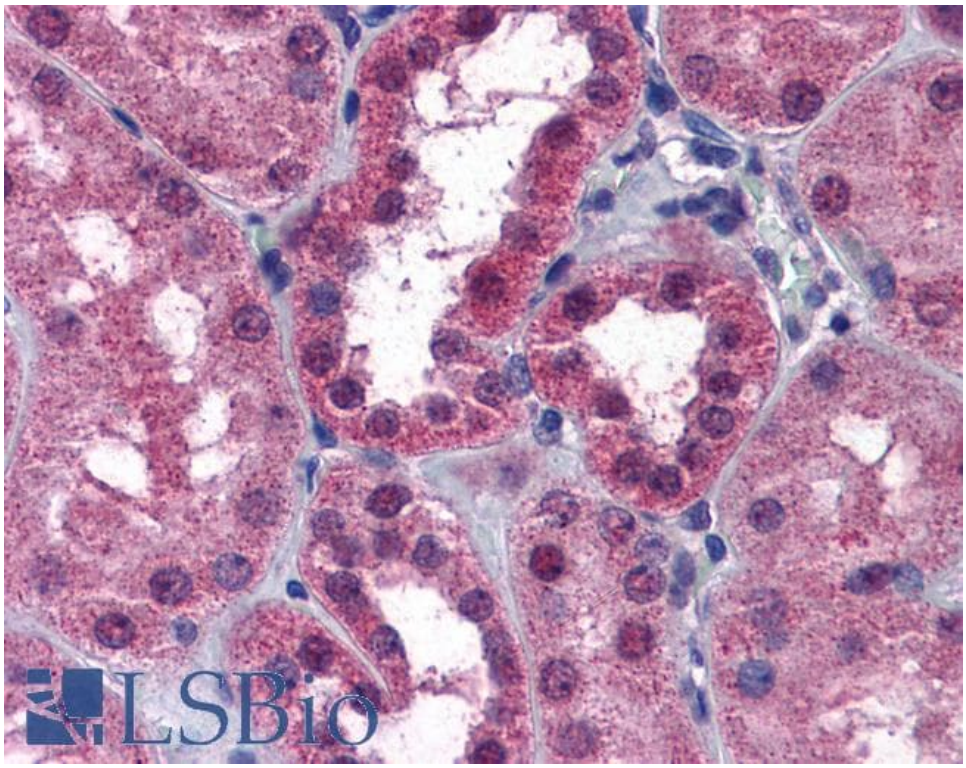
EB09509 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and plasma membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB09509 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB09509 (3.75µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



EB09509 (3.75µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.