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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB09509 - Goat Anti-P2RX7 / P2X7 receptor Antibody

Size: 100µg specific antibody in 200µl



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:

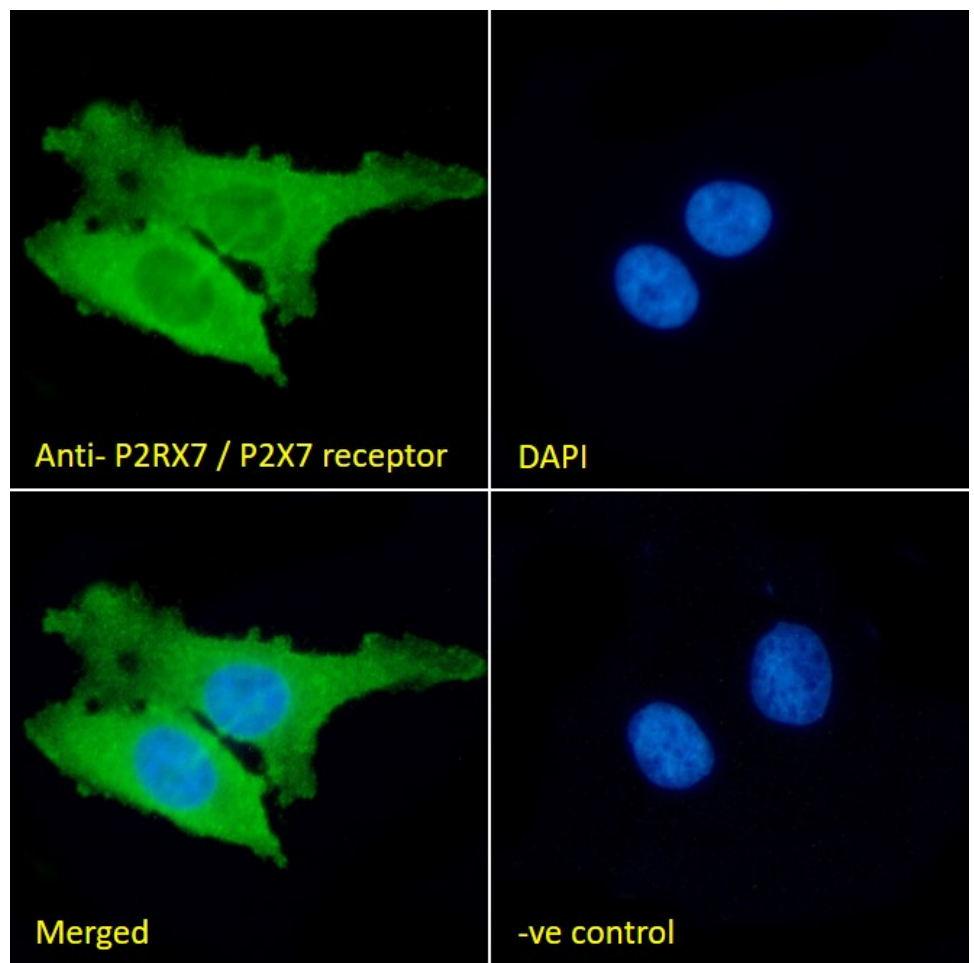
Thaler R, Sturmlechner I, Spitzer S, Riester SM, Rumpler M, Zwerina J, Klaushofer K, van Wijnen AJ, Varga F.

Acute-phase protein serum amyloid A3 is a novel paracrine coupling factor that controls bone homeostasis.

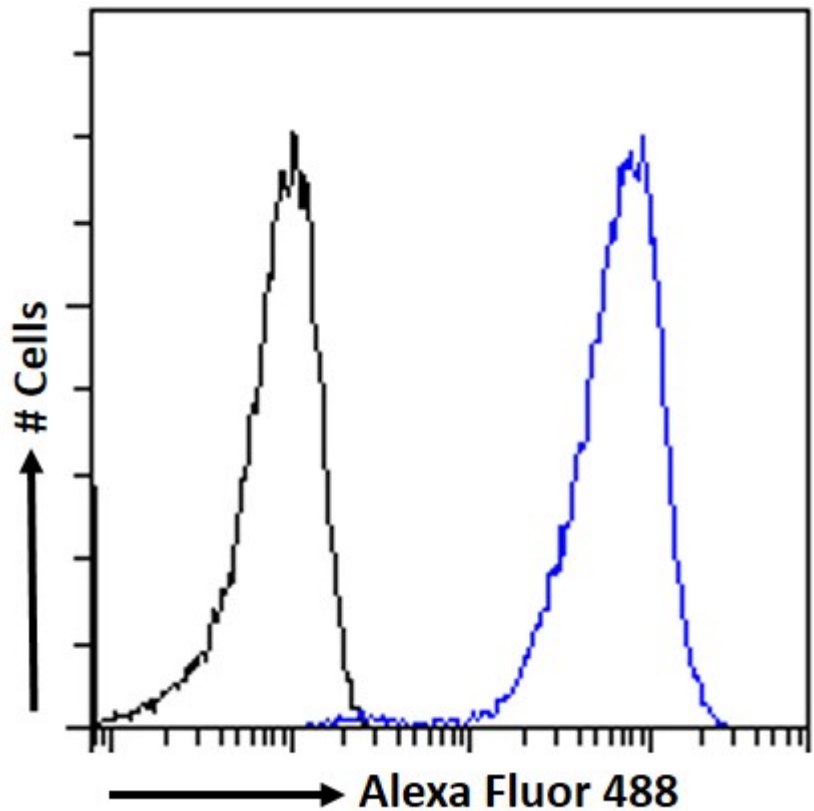
FASEB J. 2015 Apr;29(4):1344-59.
PMID: 25491310



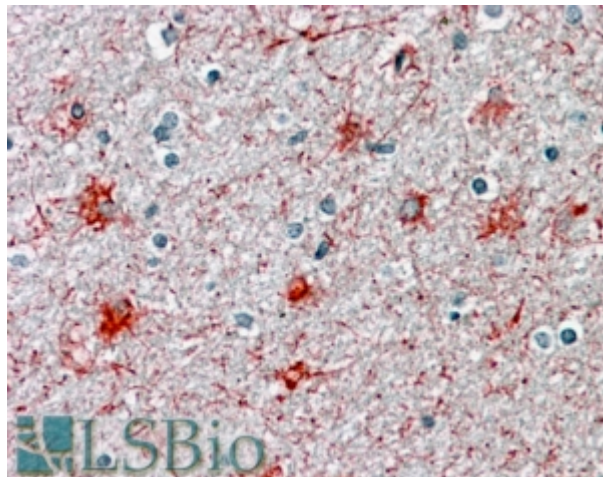
EB09509 (0.3µg/ml) staining of A431 (A) and HeLa (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



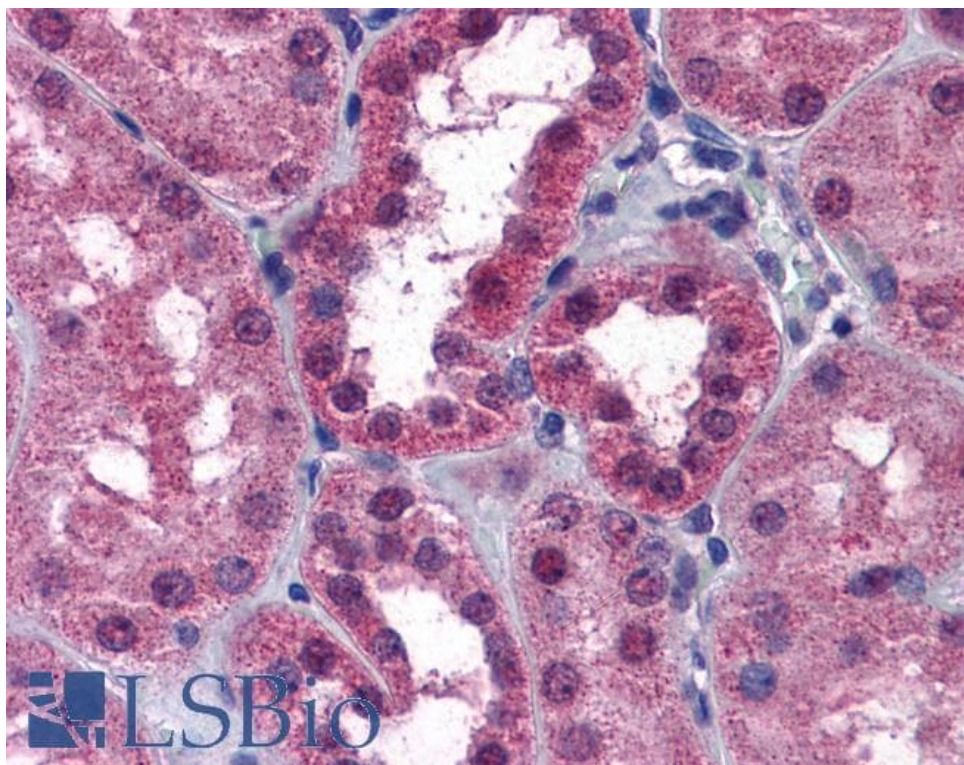
EB09509 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and plasma membrane staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized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