



## International Office

### Everest Biotech Ltd

Vector Laboratories, Inc.  
6737 Mowry Ave  
Newark, CA 94560  
United States

Customer Service:

[customerservice@vectorlabs.com](mailto:customerservice@vectorlabs.com)

Technical Service:

[technical@vectorlabs.com](mailto:technical@vectorlabs.com)

Tel: +1 (800) 227-6666

[www.everestbiotech.com](http://www.everestbiotech.com)

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

## EB08830 - Goat Anti-P2X4 / P2X4R Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** P2X4, P2X4R, P2RX4, purinergic receptor P2X, ligand-gated ion channel, 4, ATP receptor, ATP-gated cation channel protein, P2X purinoceptor 4, P2X receptor, subunit 4, purinergic receptor P2X ligand-gated ion channel 4, purinergic receptor P2X4, purinoceptor P2X4

**Official Symbol:** P2RX4

**Accession Number(s):** NP\_002551.2; NP\_001243725.1; NP\_001248326.1

**Human GeneID(s):** [5025](#)

**Non-Human GeneID(s):** 18438 (mouse), 29659 (rat)

### Immunogen

Peptide with sequence C-YREKKYKYVEDYEQ, from the C Terminus of the protein sequence according to NP\_002551.2; NP\_001243725.1; NP\_001248326.1.

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 1:128000.

**Western blot:** Approx 60kDa band observed in Human Kidney lysates and in preliminary testing of Human Liver lysate (calculated MW of 43.4kDa according to NP\_002551.2). This molecular weight is routinely observed by other sources and was successfully blocked by incubation with the immunizing peptide. Recommended concentration: 0.3-1ug/ml. Primary incubation 1 hour at room temperature.

**Flow Cytometry:** Flow cytometric analysis of A431 cells. Recommended concentration: 10ug/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow

### Specific References

**This antibody (previous batch) has been successfully used in the following paper:**

Freeman KW, Bowman BR, Zetter BR.

Regenerative protein thymosin beta-4 is a novel regulator of purinergic signaling.

FASEB J. 2011 Mar;25(3):907-15.

PMID: 21106936

**This antibody (previous batch) has been successfully used in the following paper:**

Yuan H, Zhu X, Zhou S, Chen Q, Zhu X, Ma X, He X, Tian M, Shi X.

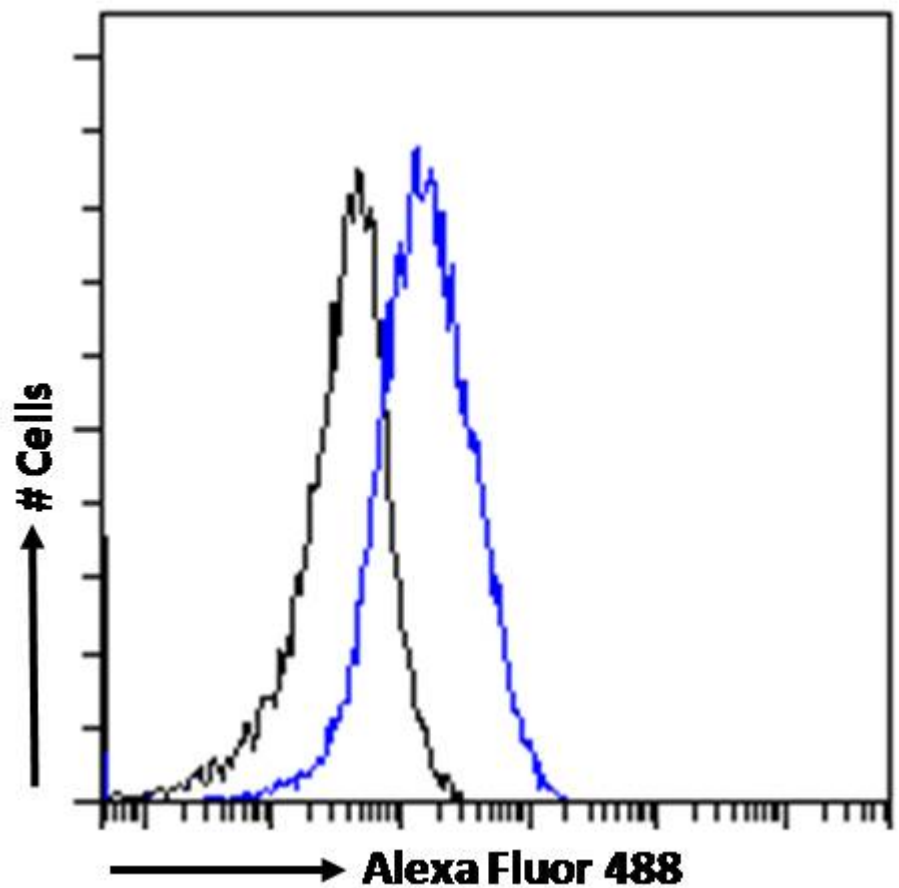
Role of mast cell activation in inducing microglial cells to release neurotrophin.

J Neurosci Res. 2010 May 1;88(6):1348-54.

PMID: 20025063



EB08830 (1 $\mu$ g/ml) staining of Human Kidney lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB08830 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (1 $\mu$ g/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.