

For Research Use Only

P2RX4 Polyclonal antibody

Catalog Number: 13534-1-AP

Featured Product

12 Publications



Basic Information

Catalog Number:

13534-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4445

GenBank Accession Number:

BC033826

GeneID (NCBI):

5025

UNIPROT ID:

Q99571

Full Name:

purinergic receptor P2X, ligand-gated ion channel, 4

Calculated MW:

388 aa, 43 kDa

Observed MW:

45-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:8000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB: HeLa cells,

IHC: human ovary cancer tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Nucleotides, the structural subunits of the nucleic acids, are also important extracellular signaling molecules. P2 receptors are a family of cell surface receptors that mediate a wide variety of physiologic effects in response to extracellular nucleotides. These receptors fall into two classes: P2X receptors, which are ligand-gated ion channels that mediate calcium and potassium fluxes in response to ATP, and P2Y receptors, which are G protein-coupled receptors (GPCRs). P2RX4 (P2X purinoceptor 4) is a receptor for ATP acting as a ligand gated ion channel. The calculated molecular weight of P2RX4 is 43 kDa, larger apparent molecular weights of 50-80 kDa have been reported, possibly due to post-translational glycosylation (PMID: 24040145, 15262999; 29382907; 12566439). The antibody can detect the band around 45 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yexian Yuan	35507647	Sci Adv	WB
Si-Ting Wu	35352488	CNS Neurosci Ther	IF
Zhuo Lin	33828988	Front Oncol	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

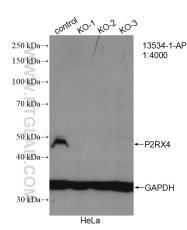
For technical support and original validation data for this product please contact:

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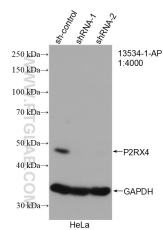
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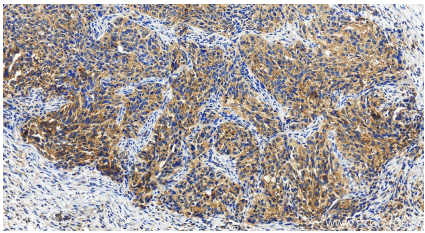
Selected Validation Data



WB result of P2RX4 antibody (13534-1-AP; 1:4000; room temperature for 1.5 hours) with wild-type and P2RX4 knockout HeLa cells.



WB result of P2RX4 antibody (13534-1-AP; 1:4000; room temperature for 1.5 hours) with sh-control and sh-P2RX4 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 13534-1-AP (P2RX4 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).