

For Research Use Only

P2RX7 Polyclonal antibody

Catalog Number: 11144-1-AP **17 Publications**



Basic Information

Catalog Number: 11144-1-AP	GenBank Accession Number: BC011913	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 147 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5027	Recommended Dilutions: IHC 1:20-1:200 IF 1:20-1:200
Source: Rabbit	UNIPROT ID: Q99572	
Isotype: IgG	Full Name: purinergic receptor P2X, ligand-gated ion channel, 7	
Immunogen Catalog Number: AG1600	Calculated MW: 69 kDa	

Applications

Tested Applications: IF, FC, IHC, ELISA	Positive Controls: IHC : human prostate cancer tissue, human tonsillitis tissue IF : HeLa cells,
Cited Applications: WB, IF, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human, rat, mouse	
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) (PMID: 21724990). P2RX7 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. P2RX7 is highly expressed by cells of the haemopoietic lineage and can mediate cell death, killing of infectious organisms, and regulation of the inflammatory response (PMID: 22102807).

Notable Publications

Author	Pubmed ID	Journal	Application
Baochang Qi	27716441	J Exp Clin Cancer Res	IF
Wen-Jun Su	30483062	Front Cell Neurosci	WB
Qing kai Zhang	30542707	Oncol Rep	WB

Storage

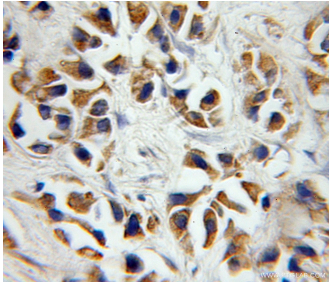
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

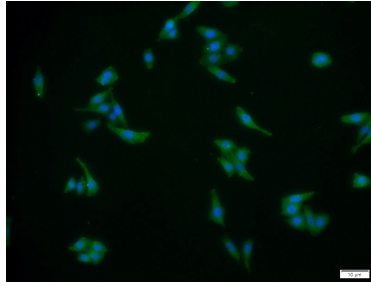
For technical support and original validation data for this product please contact:
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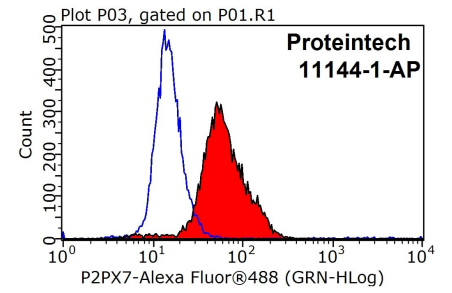
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 11144-1-AP (P2RX7 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 11144-1-AP (P2RX7 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ HeLa cells were stained with 0.2ug P2RX7 antibody (11144-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.