

For Research Use Only

PI4KA Recombinant antibody

Catalog Number:82938-1-RR



Basic Information

Catalog Number: 82938-1-RR	GenBank Accession Number: BC018120	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 5297	CloneNo.: 230057G2
Source: Rabbit	UNIPROT ID: P42356	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:250-1:1000 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: phosphatidylinositol 4-kinase, catalytic, alpha	
Immunogen Catalog Number: AG3062	Calculated MW: 2044 aa, 231 kDa	
	Observed MW: 231 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HeLa cells, mouse brain tissue, MCF-7 cells, HEK-293T cells, THP-1 cells, SKOV-3 cells, rat brain tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human placenta tissue, IF/ICC : MCF-7 cells,

Background Information

PI4KA, also named as PIK4, PIK4CA, belongs to the PI3/PI4-kinase family and Type III PI4K subfamily. It acts on phosphatidylinositol (PtdIns) in the first committed step in the production of the second messenger inositol-1,4,5-trisphosphate. PI4KA plays a role in the formation of membrane complexes where HCV replication takes place. (PMID:19605471).

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

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

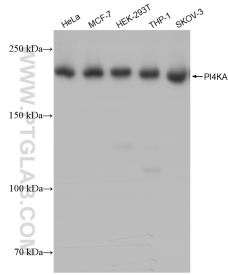
T: 4006900926

E: Proteintech-CN@ptglab.com

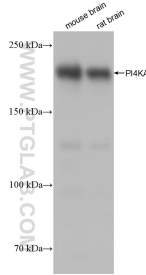
W: ptgcn.com

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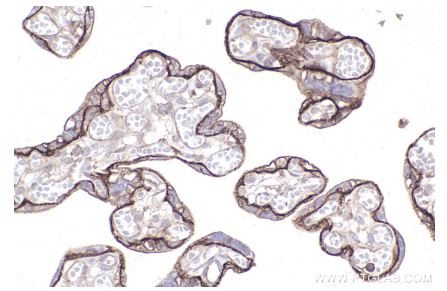
Selected Validation Data



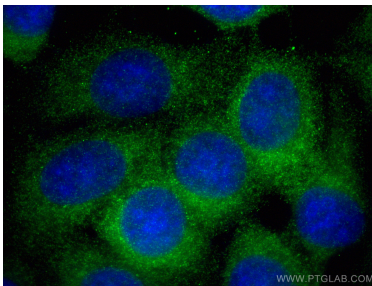
Various lysates were subjected to SDS PAGE followed by western blot with 82938-1-RR (PI4KA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



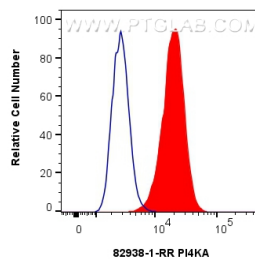
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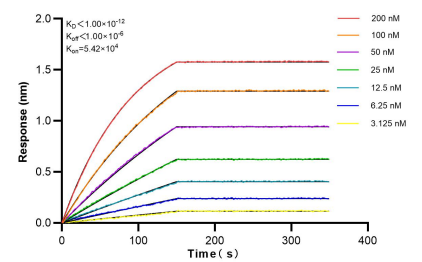
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 82938-1-RR (PI4KA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using PI4KA antibody (82938-1-RR, Clone: 230057G2) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



1×10^6 MCF-7 cells were intracellularly stained with 0.25 µg PI4KA Recombinant antibody (82938-1-RR, Clone: 230057G2) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 µg Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Bi-layer interferometry (BLI) kinetic assays of 82938-1-RR against Human PI4KA were performed. The affinity constant is below 1 pM.