

For Research Use Only

PI4KA Recombinant antibody

Catalog Number: 82938-1-RR



Basic Information

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|----------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Catalog Number: 82938-1-RR | GenBank Accession Number: BC018120 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | 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

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| 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

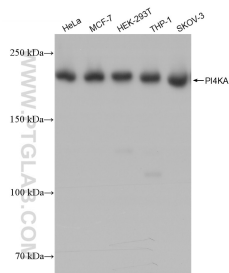
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

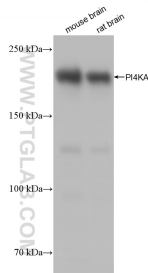
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

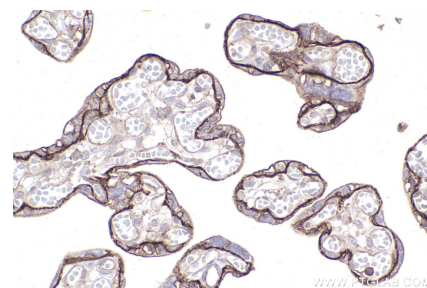
Selected Validation Data



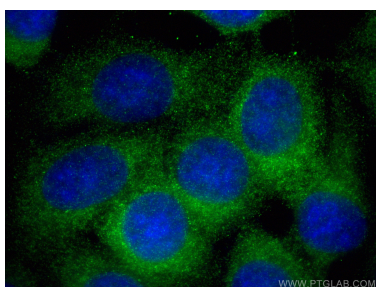
Various lysates were subjected to SDS PAGE followed by western blot with 82938-1-RR (PI4KA antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



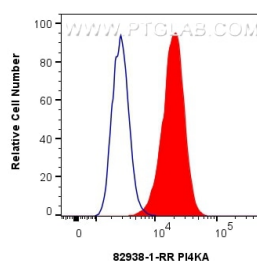
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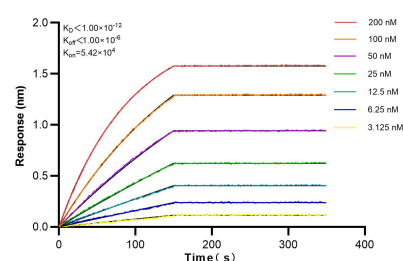
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 82938-1-RR (PI4KA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug 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 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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