

For Research Use Only

# PIP5K1A Polyclonal antibody

Catalog Number:15713-1-AP

Featured Product

12 Publications



## Basic Information

<b>Catalog Number:</b> 15713-1-AP	<b>GenBank Accession Number:</b> BC007833	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8394	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:50-1:500 IF/ICC 1:10-1:100
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99755	
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphatidylinositol-4-phosphate 5-kinase, type I, alpha	
<b>Immunogen Catalog Number:</b> AG8340	<b>Calculated MW:</b> 56 kDa, 63 kDa	
	<b>Observed MW:</b> 63 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, HeLa cells, human liver tissue, human heart tissue, NCI-H1299 cells, PC-12 cells
<b>Cited Applications:</b> WB, IHC, IF, IP	<b>IHC :</b> human tonsillitis tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IF/ICC :</b> HeLa cells,
<b>Cited Species:</b> human, mouse, rat	

**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

Phosphatidylinositol 4-phosphate 5-kinases (PIP5Ks) play diverse roles in the cellular biology of many organisms, including signal transduction, secretion and vesicular trafficking, and regulation of cytoskeleton assembly(PMID:17688436). There are three PIP5K isoforms,  $\alpha$ ,  $\beta$ , and  $\gamma$ . The nomenclature for the  $\alpha$  and  $\beta$  isoforms is switched between humans and mice(PMID:22096541). There are also several splicing variants of the  $\gamma$  isozyme have been identified.(PMID:20945365). PIP5K1A has some isoforms produced by alternative splicing with the molecular mass of 56-63 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Daqi Li	35841593	Cancer Res	WB,IF,IP
Jaerak Chang	25365221	J Clin Invest	WB
Tianyan Wang	35386201	Front Cell Dev Biol	WB,IF

## Storage

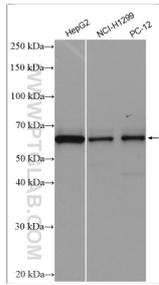
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

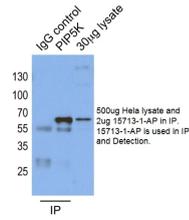
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

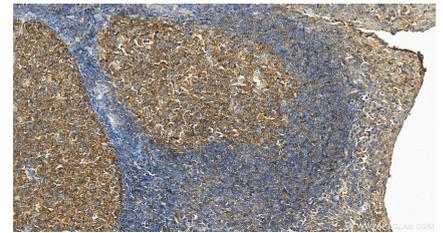
## Selected Validation Data



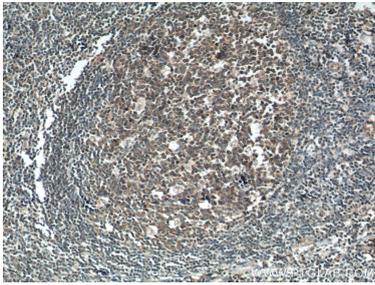
Various lysates were subjected to SDS PAGE followed by western blot with 15713-1-AP (PIP5K1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



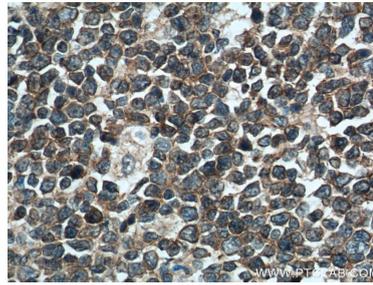
IP result of anti-PIP5K1A (15713-1-AP for IP and Detection).



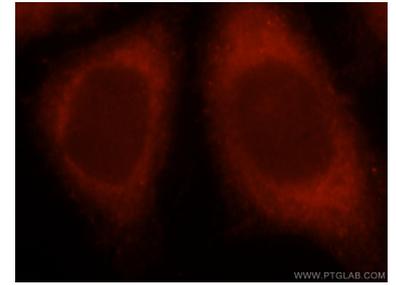
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15713-1-AP (PIP5K1A antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15713-1-AP (PIP5K1A Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 15713-1-AP (PIP5K1A Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells, using PIP5K1A antibody 15713-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).