

For Research Use Only

# PIP5K1A Monoclonal antibody

Catalog Number: 67483-1-Ig



## Basic Information

<b>Catalog Number:</b> 67483-1-Ig	<b>GenBank Accession Number:</b> BC007833	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 8394	<b>CloneNo.:</b> 3E5G12
<b>Source:</b> Mouse	<b>Full Name:</b> phosphatidylinositol-4-phosphate 5- kinase, type I, alpha	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:250-1:1000
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 56 kDa, 63 kDa	
<b>Immunogen Catalog Number:</b> AG8355	<b>Observed MW:</b> 63 kDa	

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

Human

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

### Positive Controls:

WB : LNCaP cells, HEK-293 cells, HeLa cell, HepG2 cells,  
LO2 cells, K-562 cells, Jurkat cells, MOLT-4 cells, HeLa  
cells

IHC : human tonsillitis tissue,

## 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.

## 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

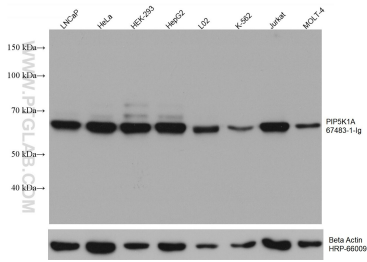
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
in USA), or 1(312) 455-8498 (outside USA)

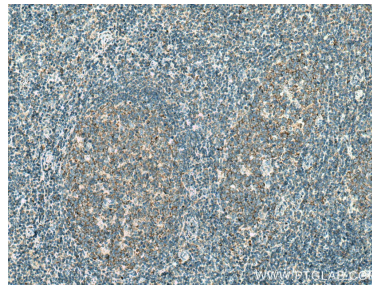
E: proteintech@ptglab.com  
W: ptglab.com

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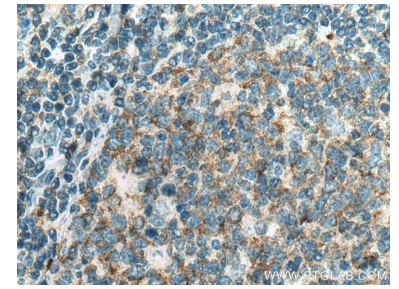
## Selected Validation Data



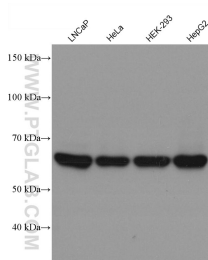
Various lysates were subjected to SDS PAGE followed by western blot with 67483-1-Ig (PIP5K1A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67483-1-Ig (PIP5K1A antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67483-1-Ig (PIP5K1A antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 67483-1-Ig (PIP5K1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.