

For Research Use Only

PIP5K3 Polyclonal antibody

Catalog Number: 13361-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

13361-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4177

GenBank Accession Number:

BC032389

GeneID (NCBI):

200576

UNIPROT ID:

Q9Y2I7

Full Name:

phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III

Calculated MW:

451 aa, 50 kDa, 237 kDa

Observed MW:

237 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, Dot Blot

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, pig, sheep

Positive Controls:

WB : HeLa cells, mouse lung tissue, Jurkat cells, mouse brain tissue, rat brain tissue

IHC : human liver cancer tissue,

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

PIP5K3 (1-phosphatidylinositol 3-phosphate 5-kinase), also called PIKFYVE, belongs to a large family of lipid kinases that alter the phosphorylation status of intracellular phosphatidylinositol (PMID: 15902656; 9858586). The content of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P₂) in endosomal membranes changes dynamically with fission and fusion events that generate or absorb intracellular transport vesicles. PIKFYVE is the PtdIns(3,5)P₂-producing component of a trimolecular complex that tightly regulates the level of PtdIns(3,5)P₂. Other components of this complex are the PIKFYVE activator VAC14 and the PtdIns(3,5)P₂ phosphatase FIG4 (PMID: 17556371). In addition to its phosphoinositide 5-kinase activity, PIKFYVE also has protein kinase activity (PubMed: 11714711; 17556371). PIP5K3 has four isoforms with molecular weights of 237 kDa, 50 kDa, 51 kDa and 62 kDa. This antibody primarily recognizes the 237 kDa isoform.

Notable Publications

Author	Pubmed ID	Journal	Application
Lorena Fernandez-Mosquera	30917721	Autophagy	WB
Masaomi Terajima	27001378	Eur J Pharmacol	
Sai Srinivas Panapakkam Giridharan	35040777	Elife	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

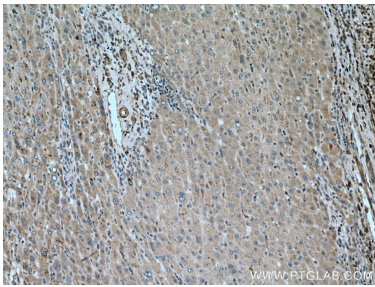
For technical support and original validation data for this product please contact:

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

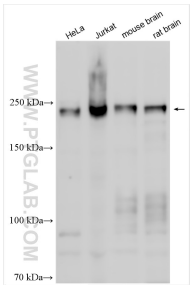
E: proteintech@ptglab.com
W: ptglab.com

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

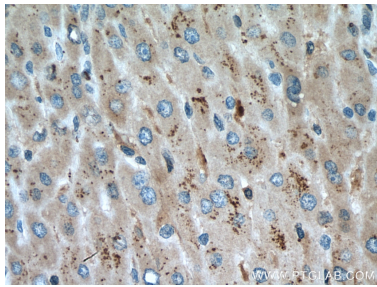
Selected Validation Data



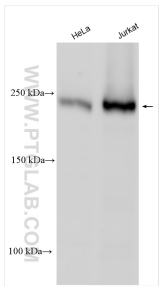
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13361-1-AP (PIP5K3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 13361-1-AP (PIP5K3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13361-1-AP (PIP5K3 antibody) at dilution of 1:200 (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 13361-1-AP (PIP5K3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.