

For Research Use Only

PBK/SPK Polyclonal antibody

Catalog Number: 16110-1-AP

Featured Product

9 Publications



Basic Information

Catalog Number:

16110-1-AP

Size:

150ul, Concentration: 400 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9033

GenBank Accession Number:

BC015191

GeneID (NCBI):

55872

UNIPROT ID:

Q96KB5

Full Name:

PDZ binding kinase

Calculated MW:

322 aa, 36 kDa

Observed MW:

36-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:3000-1:10000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

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

Positive Controls:

WB : HeLa cells, Jurkat cells, mouse ovary tissue, mouse testis tissue, NIH/3T3 cells, rat testis tissue

IHC : human placenta tissue, human lung cancer tissue, human skin cancer tissue

Background Information

PBK(PDZ-binding kinase) is also named as TOPIK, CT84, Nori-3, SPK and belongs to the MAP kinase kinase subfamily. PBK may have a role in the regulation of cellular proliferation and progression of the cell cycle. It has a characteristic cdc2cyclin B phosphorylation site(SyT-P-X-KyR) at its N terminus, which is conserved across species, and it is phosphorylated in a cell cycle-dependent manner at mitosis, and that this phosphorylation is required for its activation(PMID:10779557).

Notable Publications

Author	Pubmed ID	Journal	Application
Haofuzi Zhang	36358948	Biomolecules	IHC
Junyi Wang	32598088	FASEB J	WB,IF
Hanlin Ma	35859118	Exp Mol Med	WB,IHC,IP

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

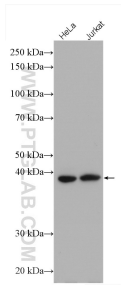
For technical support and original validation data for this product please contact:

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

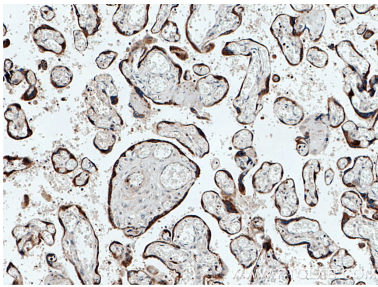
E: proteintech@ptglab.com
W: ptglab.com

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

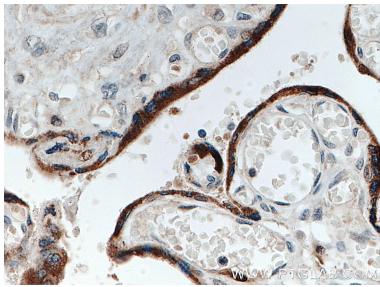
Selected Validation Data



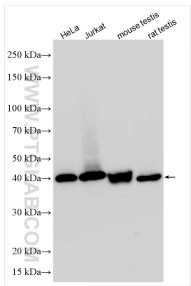
Various lysates were subjected to SDS PAGE followed by western blot with 16110-1-AP (PBK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



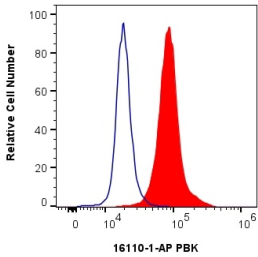
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16110-1-AP (PBK antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 16110-1-AP (PBK 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 16110-1-AP (PBK antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



(blue)1x10⁶ HepG2 cells were intracellularly stained with 0.8 ug Anti-Human PBK (16110-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2) at dilution 1:1000(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.