

For Research Use Only

PBK Polyclonal antibody

Catalog Number: 16110-1-AP

Featured Product

8 Publications



Basic Information

| | | |
|---|--|--|
| Catalog Number: 16110-1-AP | GenBank Accession Number: BC015191 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 293 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 55872 | Recommended Dilutions: WB 1:3000-1:10000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: Q96KB5 | |
| Isotype: IgG | Full Name: PDZ binding kinase | |
| Immunogen Catalog Number: AG9033 | Calculated MW: 322 aa, 36 kDa | |
| | Observed MW: 36-40 kDa | |

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

human, mouse, rat

Cited Species:

human, rat, mouse

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, mouse ovary tissue, mouse testis tissue, Jurkat cells, NIH/3T3 cells

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

Background Information

PBK(PDZ-binding kinase) is also named as TOPK, 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 cdc2/cyclin 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

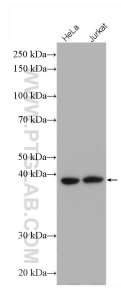
For technical support and original validation data for this product please contact:

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

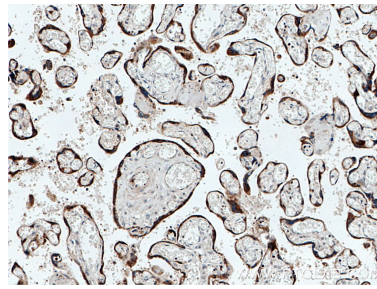
E: proteintech@ptglab.com
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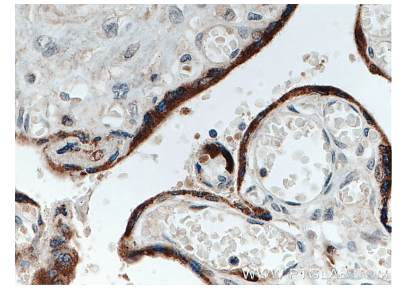
Selected Validation Data



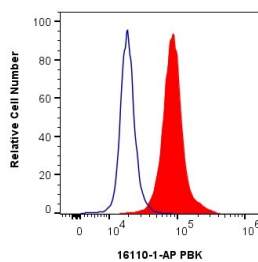
Various lysates were subjected to SDS PAGE followed by western blot with 16110-1-AP (PBK antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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).



(blue) 1×10^6 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.