

For Research Use Only

CSNK1G1 Polyclonal antibody

Catalog Number: 16384-1-AP **1 Publications**



Basic Information

Catalog Number: 16384-1-AP	GenBank Accession Number: BC017236	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 53944	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
Source: Rabbit	Full Name: casein kinase 1, gamma 1	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 422 aa, 49 kDa	
Immunogen Catalog Number: AG9395	Observed MW: 49 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : HeLa cells, Jurkat cells, COS-7 cells
Cited Applications: IP, WB	IP : Jurkat cells,
Species Specificity: human, monkey	IHC : human liver tissue,
Cited Species: human	

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

The casein kinase 1 (CK1) is a family of Ser/Thr protein kinases that functions as regulator in signal transduction of eukaryotic cells. CSNK1G1(Casein kinase I isoform gamma-1) plays an important role in activating the ATR/Chk1 pathway by phosphorylating Claspin, which was identified as a Chk1-activating protein. Recently, it has been found that CSNK1G1 can phosphorylate NF-kB subunit p65 at Ser536, which promotes its ubiquitin-mediated degradation by E3 ligases COMMD1 and CUL2.(PMID:24442433). This protein has 2 isoforms produced by alternative splicing with the molecular weight of 49 kDa and 45 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yetao Wang	24442433	J Immunol	WB,IP

Storage

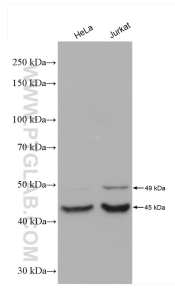
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

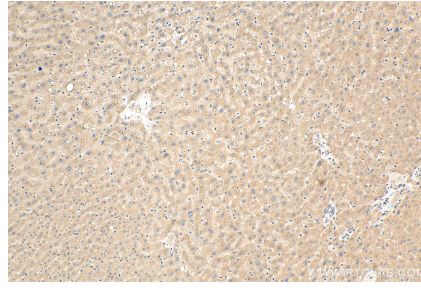
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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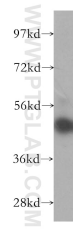
Selected Validation Data



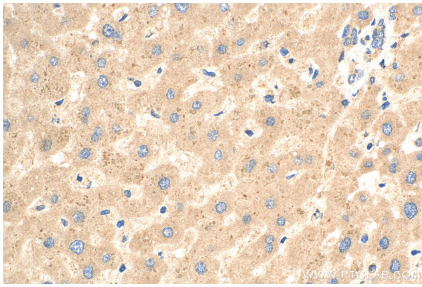
Various lysates were subjected to SDS PAGE followed by western blot with 16384-1-AP (CSNK1G1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



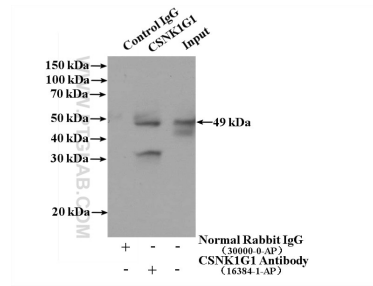
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16384-1-AP (CSNK1G1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Jurkat cells were subjected to SDS PAGE followed by western blot with 16384-1-AP (CSNK1G1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16384-1-AP (CSNK1G1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-CSNK1G1 (IP:16384-1-AP, 4ug; Detection:16384-1-AP 1:300) with Jurkat cells lysate 2800ug.