

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: 600 µg/ml	GeneID (NCBI): 53944	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9HCPO	
Isotype: IgG	Full Name: casein kinase 1, gamma 1	
Immunogen Catalog Number: AG9395	Calculated MW: 422 aa, 49 kDa	
	Observed MW: 49 kDa	

Applications

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

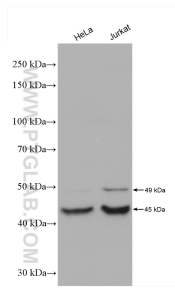
Storage

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

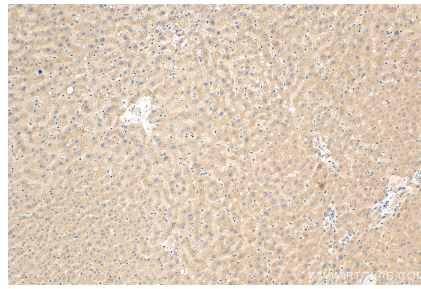
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

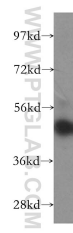
Selected Validation Data



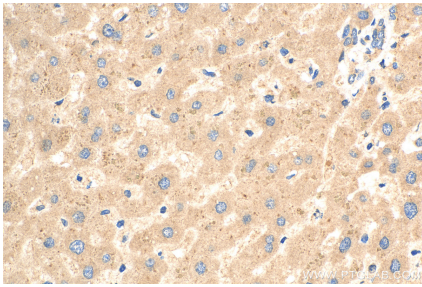
Various lysates were subjected to SDS PAGE followed by western blot with 16384-1-AP (CSNK1G1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



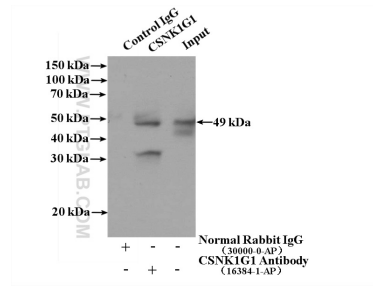
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 16384-1-AP (CSNK1G1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.