

For Research Use Only

CSNK1A1 Polyclonal antibody

Catalog Number: 55192-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number: 55192-1-AP	GenBank Accession Number: NM_001892	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 µg/ml by Nanodrop and 453 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1452	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:10-1:100
Source: Rabbit	Full Name: casein kinase 1, alpha 1	
Isotype: IgG	Calculated MW: 42 kDa	
	Observed MW: 30-35 kDa, 42-45 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: ColP, IF, IHC, IP, WB	WB: HeLa cells, MCF-7 cells, NIH/3T3 cells
Species Specificity: human, mouse, rat	IHC: human breast cancer tissue, human lung cancer tissue
Cited Species: human, mouse	IF: A549 cells,
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

CSNK1A1, also named as CK1, belongs to the protein kinase superfamily, CK1 Ser/Thr protein kinase family and Casein kinase I subfamily. Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. CSNK1A1 can phosphorylate a large number of proteins. It participates in Wnt signaling. CSNK1A1 phosphorylates CTNNB1 at 'Ser-45'. May play a role in segregating chromosomes during mitosis. This antibody is specific to CSNK1A1.

Notable Publications

Author	Pubmed ID	Journal	Application
Xue Deng	34726688	J Cell Biol	WB
Xiaomin Liu	35550648	Stem Cell Res Ther	WB, IF
Yuyuan Zi	35280671	Int J Biol Sci	WB

Storage

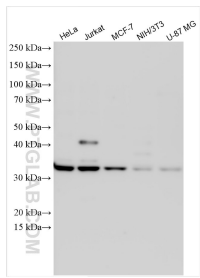
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

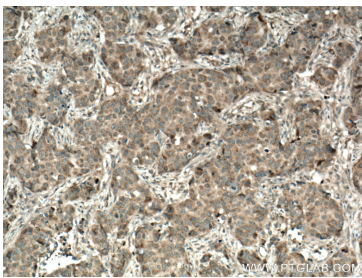
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

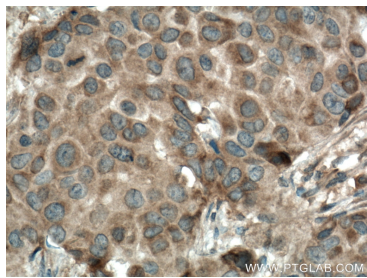
Selected Validation Data



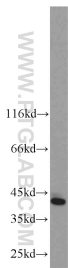
Various lysates were subjected to SDS PAGE followed by western blot with 55192-1-AP (CSNK1A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



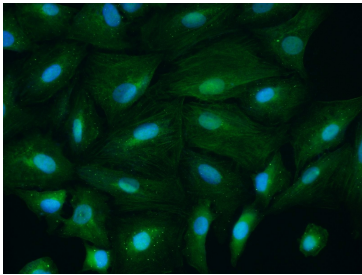
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 55192-1-AP (CSNK1A1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 55192-1-AP (CSNK1A1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



MCF7 cells were subjected to SDS PAGE followed by western blot with 55192-1-AP (CSNK1A1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of A549 cells using 55192-1-AP (CSNK1A1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).