

# CSNK1A1 Polyclonal antibody

Catalog Number: 55192-1-AP

Featured Product

14 Publications

## Basic Information

## Catalog Number:

55192-1-AP

## Size:

400 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## GenBank Accession Number:

NM\_001892

## GeneID (NCBI):

1452

## UNIPROT ID:

P48729

## Full Name:

casein kinase 1, alpha 1

## Calculated MW:

42 kDa

## Observed MW:

30-35 kDa, 42-45 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

IF 1:10-1:100

## Applications

## Tested Applications:

IF/ICC, IHC, WB, ELISA

## Cited Applications:

CoIP, IF, IHC, IP, WB

## Species Specificity:

human, mouse, rat

## Cited Species:

human, 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, MCF-7 cells, NIH/3T3 cells

IHC : human breast cancer tissue, human lung cancer tissue

IF : A549 cells,

## 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

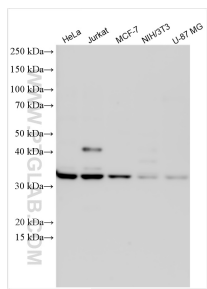
For technical support and original validation data for this product please contact:

T: 4006900926

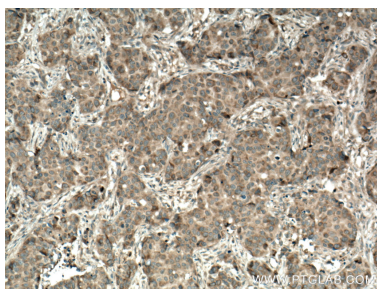
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

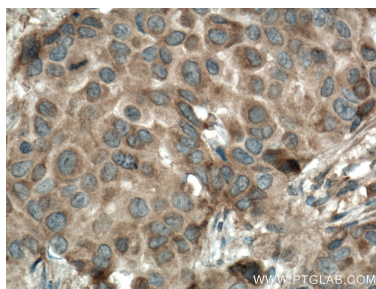
## Selected Validation Data



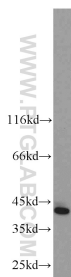
Various lysates were subjected to SDS PAGE followed by western blot with 55192-1-AP (CSNK1A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



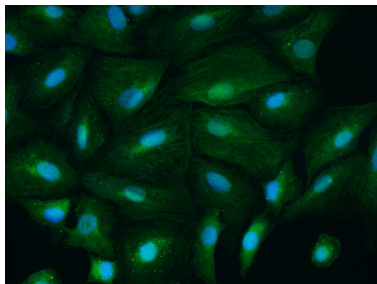
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 55192-1-AP (CSNK1A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).