

For Research Use Only

# CSNK1A1 Polyclonal antibody

Catalog Number: 55192-1-AP

Featured Product

14 Publications



## Basic Information

**Catalog Number:**

55192-1-AP

**Size:**

400 ug/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/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Cited Applications:**

WB, IHC, IF, IP, CoIP

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

**WB:** HeLa cells,

**IHC:** human breast cancer tissue, human lung cancer tissue

**IF/ICC:** 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

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

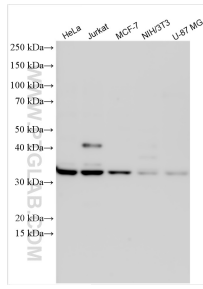
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

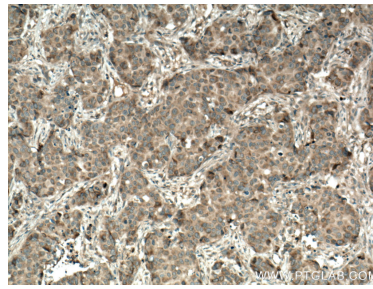
W: [ptgcn.com](http://ptgcn.com)

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

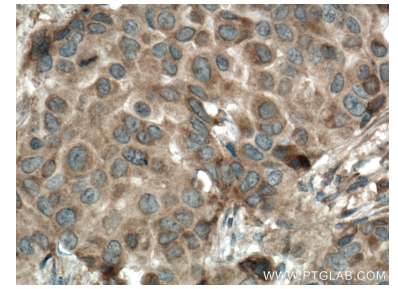
## Selected Validation Data



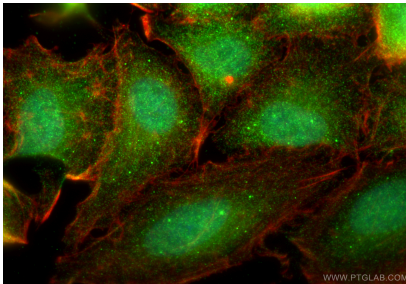
Various lysates were subjected to SDS PAGE followed by western blot with 55192-1-AP (CSNK1A1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using CSNK1A1 antibody (55192-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).