

For Research Use Only

CSNK2A1 Polyclonal antibody

Catalog Number: 10992-1-AP

Featured Product

24 Publications



Basic Information

Catalog Number:

10992-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1452

GenBank Accession Number:

BC011668

GeneID (NCBI):

1457

UNIPROT ID:

P68400

Full Name:

casein kinase 2, alpha 1 polypeptide

Calculated MW:

45 kDa

Observed MW:

40-45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

WB, IP, IF/ICC, IHC, ELISA

Cited Applications:

WB, IP, IF, IHC, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB: A431 cells, PC-3 cells, K-562 cells, NIH/3T3 cells, Raji cells

IP: HeLa cells,

IHC: human breast cancer tissue, human colon cancer tissue

IF: HeLa 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

CSNK2A1 (Casein kinase II subunit alpha) is also named as CK2A1 and belongs to the CK2 subfamily. The CSNK2A1 gene contains 8 exons whose sequences comprise bases 102 to 824 of the coding region of the human casein kinase II alpha subunit. Casein kinase II is a ubiquitous protein-serine/threonine kinase in eukaryotic cells that catalyzes the phosphorylation of many protein substrates and has been regarded as a second-messenger-independent protein kinase. This enzyme is composed of an α subunit (37 to 44 kDa) and a β subunit (24 to 28 kDa) and exists as an $\alpha_2\beta_2$ tetramer (PMID:1448100). Casein kinase 2 has been found to be increased at protein level and up-regulated at the level of enzyme activity in the majority of cancers. However, elevated levels of casein kinase 2 are present in certain normal organs such as brain and testes.

Notable Publications

Author	Pubmed ID	Journal	Application
C Shu	36306106	J Endocrinol Invest	WB, IP
Xuehui Li	34756889	J Biol Chem	IP
Xingtang Niu	32433772	J Burn Care Res	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:

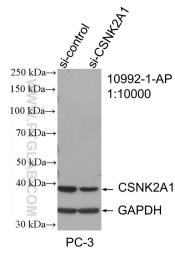
T: 4006900926

E: Proteintech-CN@ptglab.com

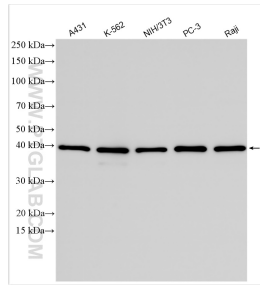
W: ptgcn.com

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

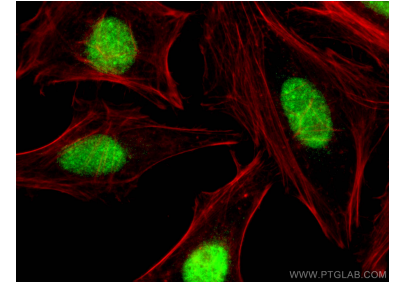
Selected Validation Data



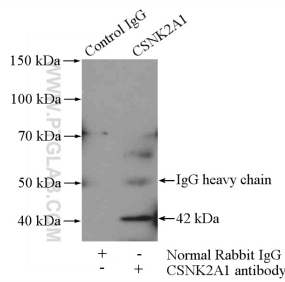
WB result of CSNK2A1 antibody (10992-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CSNK2A1 transfected PC-3 cells.



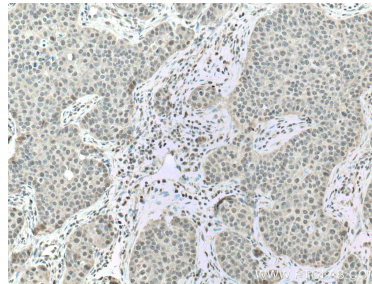
Various lysates were subjected to SDS PAGE followed by western blot with 10992-1-AP (CSNK2A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



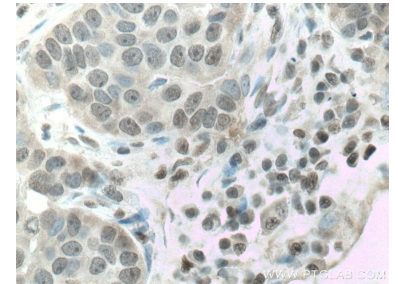
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10992-1-AP (CSNK2A1 antibody), at dilution of 1:100 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Phalloidine stains the F-actin.



IP result of anti-CSNK2A1 (IP:10992-1-AP, 4ug; Detection:10992-1-AP 1:1000) with HeLa cells lysate 2800ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10992-1-AP (CSNK2A1 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 10992-1-AP (CSNK2A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).