

For Research Use Only

CSNK2A1 Polyclonal antibody

Catalog Number:10992-1-AP

Featured Product

36 Publications



Basic Information

Catalog Number:

10992-1-AP

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 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:200-1:2000

IF/ICC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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/ICC: 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 44kDa) 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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

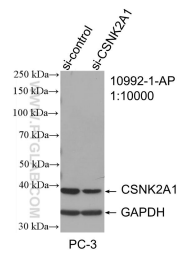
T: 4006900926

E: Proteintech-CN@ptglab.com

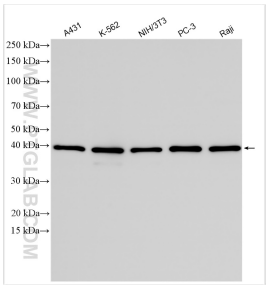
W: ptgcn.com

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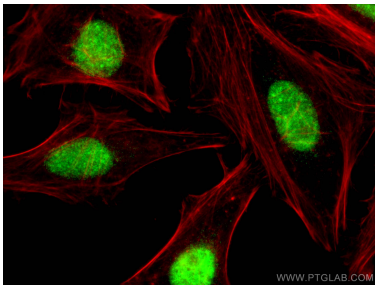
Selected Validation Data



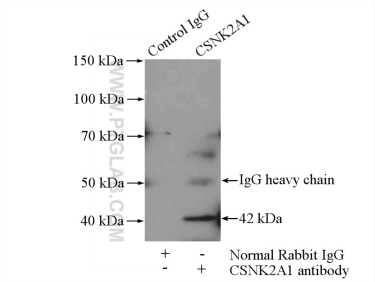
WB result of CSNK2A1 antibody (10992-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CSNK2A1 transfected PC-3 cells.



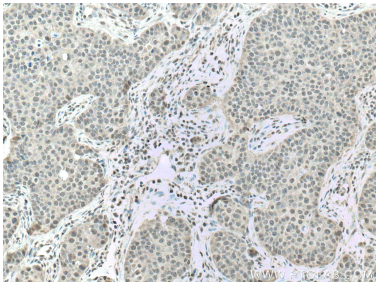
Various lysates were subjected to SDS PAGE followed by western blot with 10992-1-AP (CSNK2A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



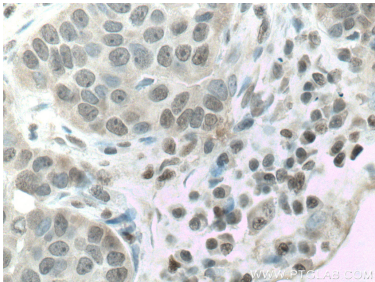
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10992-1-AP (CSNK2A1 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Phalloidine stains the F-actin.



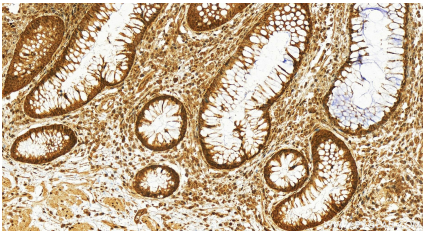
IP result of anti-CSNK2A1 (IP:10992-1-AP, 4ug; Detection:10992-1-AP 1:1000) with HeLa cells lysate 2800ug.



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).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10992-1-AP (CSNK2A1 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).