For Research Use Only

CSNK2A1 Polyclonal antibody

Catalog Number:10992-1-AP

Featured Product

29 Publications



Basic Information

Catalog Number: GenBank Accession Number: BC011668

10992-1-AP GeneID (NCBI): Size: 150ul , Concentration: 700 ug/ml by

Nanodrop: **UNIPROT ID:**

P68400 Rabbit Full Name:

Isotype: casein kinase 2, alpha 1 polypeptide

IgG Calculated MW: Immunogen Catalog Number: 45 kDa AG1452 Observed MW:

40-45 kDa

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

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

Purification Method:

WB 1:5000-1:50000

protein lysate

IHC 1:200-1:2000

IF/ICC 1:50-1:500

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

Raii cells IP: HeLa cells,

IHC: human breast cancer tissue, human colon cancer

tissue

IF/ICC: HeLa cells,

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 phosphory lation of many protein substrates and has been regarded as a second-messenger-independent protein and the phosphory lation of many protein substrates and has been regarded as a second-messenger-independent protein substrates.kinase. This enzyme is composed of an a subunit (37 to 44kDa) and a β subunit (24 to 28 kDa) and exists as an a2 β 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:

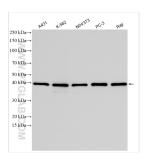
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

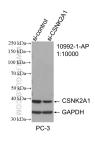
*** 20ul sizes contain 0.1% BSA

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

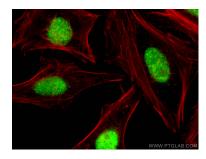
Selected Validation Data



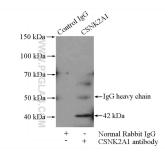
Various lysates were subjected to SDS PAGE followed by western blot with 10992-1-AP (CSNK2A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



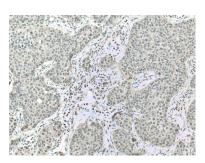
WB result of CSNK2A1 antibody (10992-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CSNK2A1 transfected PC-3 calls.



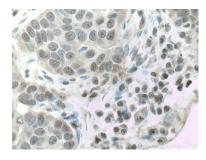
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10992-1-AP (CSNK2A1 antibody), at dilution of 1:100 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Phalloidine stains the F-actin.



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



Immunohistochemical analysis of paraffinembedded 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 paraffinembedded 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 paraffinembedded 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).