

For Research Use Only

CSNK2A1 Recombinant antibody

Catalog Number:83805-4-RR



Basic Information

Catalog Number: 83805-4-RR	GenBank Accession Number: BC011668	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 1457	CloneNo.: 240862A7
Source: Rabbit	UNIPROT ID: P68400	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: casein kinase 2, alpha 1 polypeptide	
Immunogen Catalog Number: AG1452	Calculated MW: 45 kDa	
	Observed MW: 40-45 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HEK-293T cells, Raji cells, SH-5Y5Y cells, U-251 cells, A431 cells, C6 cells, NIH/3T3 cells

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 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.

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

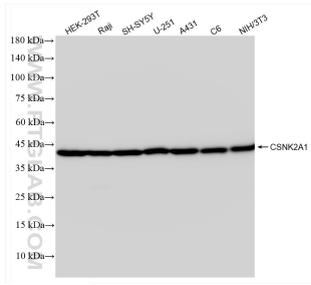
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

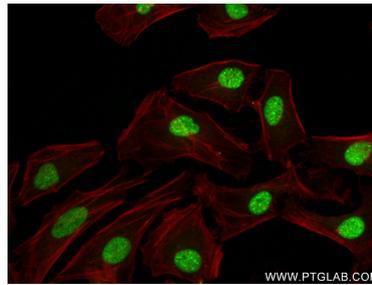
E: proteintech@ptglab.com
W: ptglab.com

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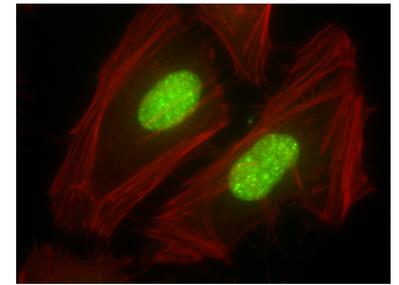
Selected Validation Data



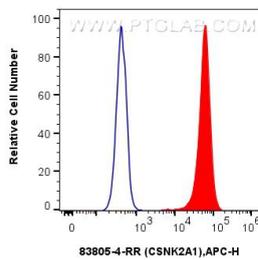
Various lysates were subjected to SDS PAGE followed by western blot with 83805-4-RR (CSNK2A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



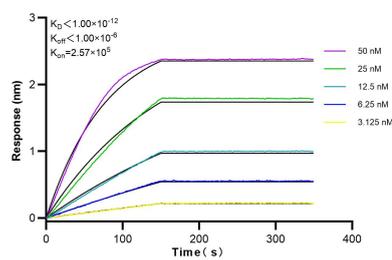
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CSNK2A1 antibody (83805-4-RR, Clone: 240862A7) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CSNK2A1 antibody (83805-4-RR, Clone: 240862A7) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10⁶ Jurkat cells were intracellularly stained with 0.25 ug CSNK2A1 Recombinant antibody (83805-4-RR, Clone:240862A7) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83805-4-RR against Human CSNK2A1 were performed. The affinity constant is below 1 pM.