

## CSNK2A1 Recombinant antibody

Catalog Number: 83805-4-RR

## Basic Information

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

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HEK-293T cells, Raji cells, SH-SY5Y cells, U-251 cells, A431 cells, C6 cells, NIH/3T3 cells <b>IF/ICC :</b> 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  $\alpha$  subunit (37 to 44 kDa) and a  $\beta$  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

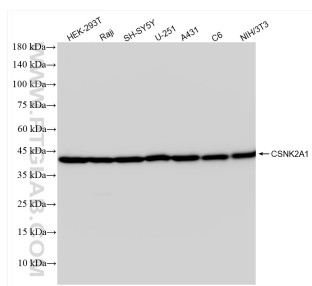
For technical support and original validation data for this product please contact:

T: 4006900926

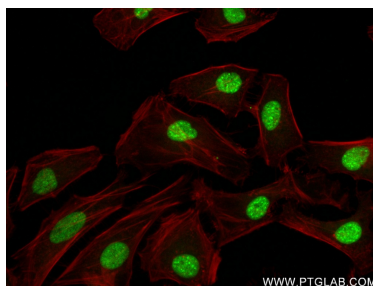
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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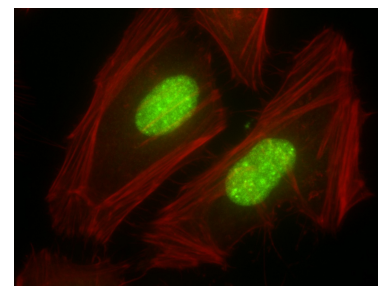
## Selected Validation Data



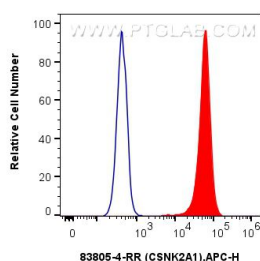
Various lysates were subjected to SDS PAGE followed by western blot with 83805-4-RR (CSNK2A1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



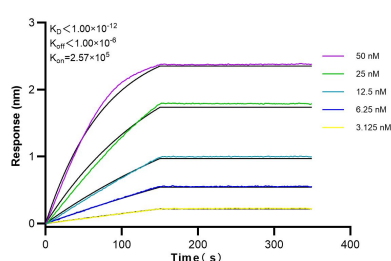
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CSNK2A1 antibody (83805-4-RR, Clone: 240862A7) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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 AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug CSNK2A1 Recombinant antibody (83805-4-RR, Clone:240862A7) and APC-Conjugated AffiniPure 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.