

For Research Use Only

# CSNK2A1 Monoclonal antibody

Catalog Number: 68200-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 68200-1-Ig	<b>GenBank Accession Number:</b> BC011668	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1457	<b>CloneNo.:</b> 1D5E8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P68400	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IF/ICC 1:750-1:3000
<b>Isotype:</b> IgG1	<b>Full Name:</b> casein kinase 2, alpha 1 polypeptide	
<b>Immunogen Catalog Number:</b> AG29062	<b>Calculated MW:</b> 45 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b> WB : LNCaP cells, rabbit heart tissue, HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, MOLT-4 cells, K-562 cells, HL-60 cells
<b>Cited Applications:</b> WB, IP	
<b>Species Specificity:</b> human, rabbit	<b>IF/ICC :</b> A431 cells, HepG2 cells
<b>Cited Species:</b> human	

## 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 44kDa) 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Riham Ayoubi	39403680	F1000Res	WB,IP

## Storage

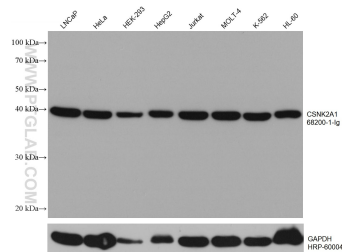
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

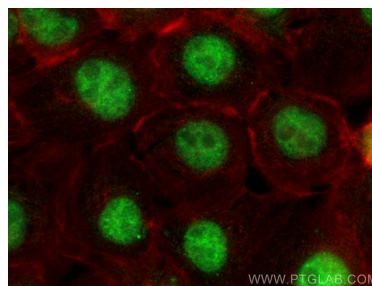
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68200-1-Ig (CSNK2A1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using CSNK2A1 antibody (68200-1-Ig, Clone: 1D5E8) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).