
Product Name: CSNK2A2 Mouse Monoclonal Antibody**Catalog #: AMM81170**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA,FC
Reactivity	Human,Mouse,Rat,Monkey,Rabbit
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	41.2kDa

Antigen Information

Gene Name	CSNK2A2
Alternative Names	CK2A2; CSNK2A1; FLJ43934
Gene ID	1459.0
SwissProt ID	P19784
Immunogen	Purified recombinant fragment of human CSNK2A2 (AA: 194-350) expressed in E. Coli.

Background

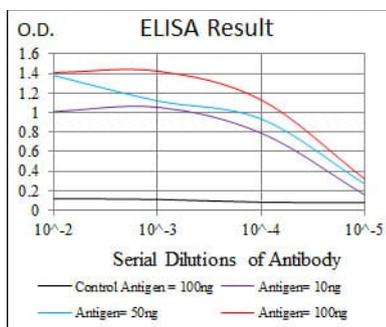
Casein kinase II (CK2) is a constitutively active, ubiquitously expressed serine/threonine protein kinase that is thought to have a regulatory function in cell proliferation, cell differentiation and apoptosis. CK2 functions as a tetrameric complex consisting of two regulatory beta-subunits and two catalytic units (alpha and alpha') in a homomeric or heteromeric conformation. Whilst

the alpha- and alpha'-subunits are catalytically identical, proteins that regulate CK2, such as cdc2 and Hsp90, preferentially bind to the alpha and not the alpha'-subunit. CK2 can phosphorylate a number of key intracellular signaling proteins implicated in tumor suppression (p53 and PTEN) and tumorigenesis (myc, jun, NF-kappaB). CK2 is also thought to influence Wnt signaling via beta-catenin phosphorylation and the PI 3-K signaling pathway via the phosphorylation of Akt.

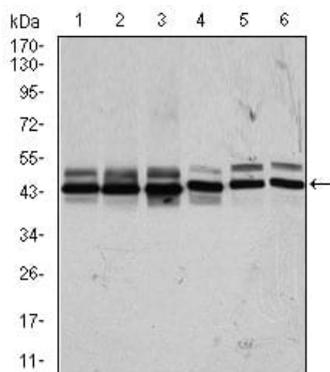
Research Area

Apoptosis, Wnt signaling pathway

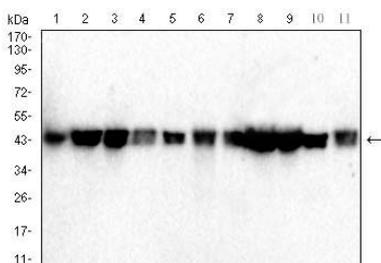
Image Data



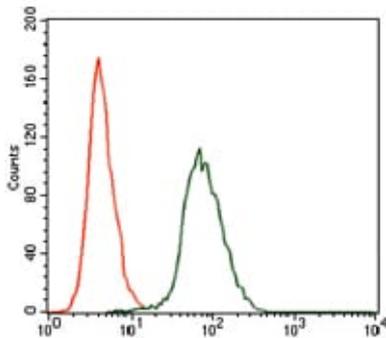
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



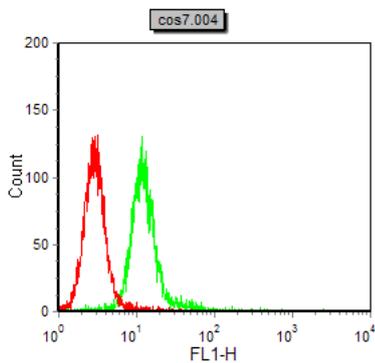
Western blot analysis using CSNK2A2 mouse mAb against HeLa (1), MCF-7 (2), HepG2 (3), Jurkat (4), NIH3T3 (5), and PC-12 (6) cell lysate.



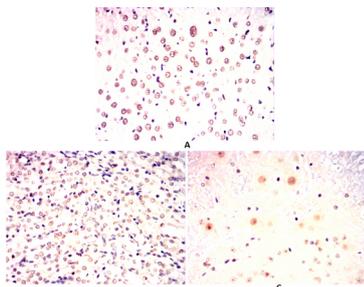
Western blot analysis using CSNK2A2 mouse mAb against mouse liver(1)PC-12(2)Raw264.7(3)NIH/3T3(4)NRK(5)C2C12(6)C6(7)L1210(8)F9(9)COS-7(10)CHO3D10(11) cell lysate.



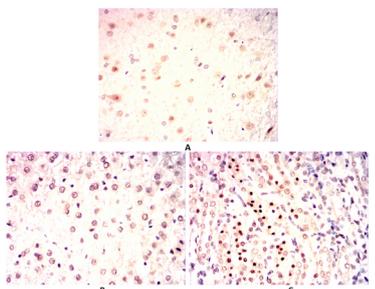
Flow cytometric analysis of HepG2 cells using CSNK2A2 mouse mAb (green) and negative control (red).



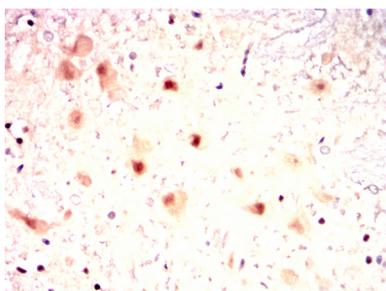
Flow cytometric analysis of COS7 cells using CSNK2A2 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded Mouse kidney(A)Mouse kidney(B)Mouse cerebellum(C) using CSNK2A2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat kidney(A)Rat kidney(B)Rat brain(C) using CSNK2A2 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit spinal cord using CSNK2A2 mouse mAb with DAB staining.