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CSNK2B Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1961a

Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P67870
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	2F12F3
Isotype	IgG1
Calculated MW	24942
Description	This gene encodes the beta subunit of casein kinase II, a ubiquitous protein kinase which regulates metabolic pathways, signal transduction, transcription, translation, and replication. The enzyme is composed of three subunits, alpha, alpha prime and beta, which form a tetrameric holoenzyme. The alpha and alpha prime subunits are catalytic, while the beta subunit serves regulatory functions. The enzyme localizes to the endoplasmic reticulum and the Golgi apparatus. Two transcript variants encoding different isoforms have been found for this gene.
Immunogen	Purified recombinant fragment of human CSNK2B (AA: FULL(1-215)) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide.

Additional Information

Gene ID	1460
Other Names	Casein kinase II subunit beta, CK II beta, Phosvitin, Protein G5a, CSNK2B, CK2N, G5A
Dilution	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CSNK2B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CSNK2B (HGNC:2460)
Synonyms	CK2N, G5A
Function	Regulatory subunit of casein kinase II/CK2. As part of the kinase complex regulates the basal catalytic activity of the alpha subunit a constitutively active serine/threonine-protein kinase that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine (PubMed:11239457, PubMed:16818610). Participates in Wnt signaling (By similarity).
Cellular Location	Nucleus.

Background

PIWIL4 belongs to the Argonaute family of proteins, which function in development and maintenance of germline stem cells ; ; ;

References

1. Nan Fang Yi Ke Da Xue Xue Bao. 2012 Oct;32(10):1491-4.2. Am J Pathol. 2009 Jan;174(1):287-96.

Images

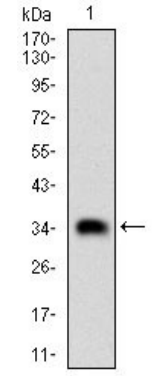


Figure 1: Western blot analysis using CSNK2B mAb against human CSNK2B (AA: FULL(1-215)) recombinant protein. (Expected MW is 35 kDa)

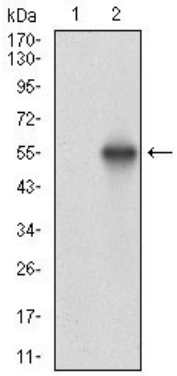
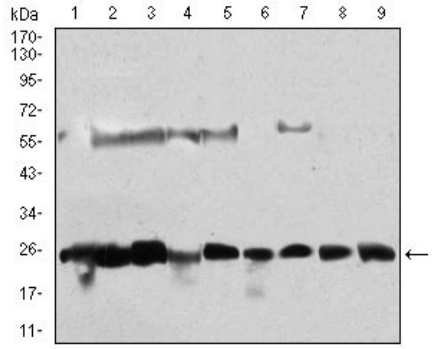


Figure 2: Western blot analysis using CSNK2B mAb against HEK293 (1) and CSNK2B (AA: FULL(1-215))-hIgGFc transfected HEK293 (2) cell lysate.

Figure 3: Western blot analysis using CSNK2B mouse mAb against Hela (1), Jurkat (2), K562 (3), HepG2 (4), C6 (5), SK-N-SH (6), NTERA-2 (7), MCF-7 (8), NIH/3T3 (9) cell lysate.



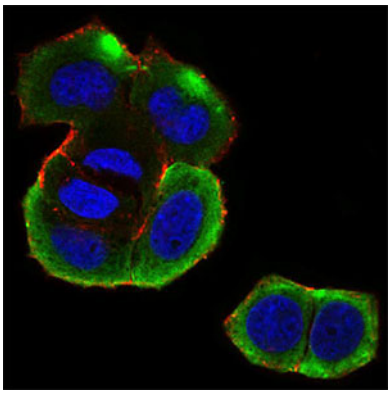


Figure 4: Immunofluorescence analysis of MCF-7 cells using CSNK2B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

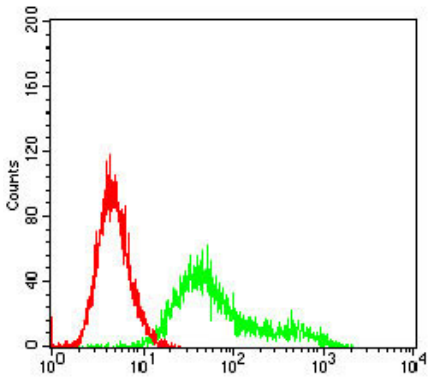


Figure 5: Flow cytometric analysis of Hela cells using CSNK2B mouse mAb (green) and negative control (red).

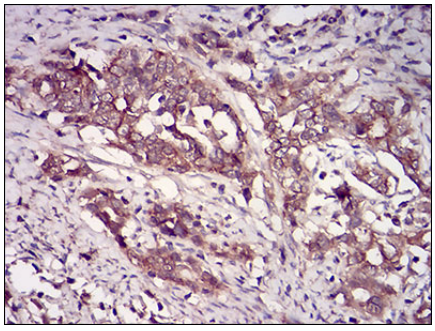


Figure 6: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CSNK2B mouse mAb with DAB staining.

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