

CSNK2B Antibody

Purified Mouse Monoclonal Antibody Catalog # AO1961a

Product Information

Application WB, IHC, FC, ICC, E

Primary Accession
Reactivity
Human
Host
Clonality
Monoclonal
Clone Names
Isotype
IgG1
Calculated MW
P67870
Human
Human
F1870
Human
F1870
Human
F1870
F

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

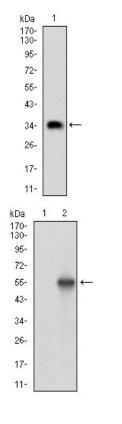
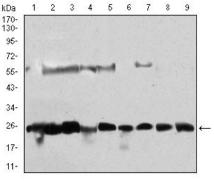


Figure 1: Western blot analysis using CSNK2B mAb against human CSNK2B (AA: FULL(1-215)) recombinant protein. (Expected MW is 35 kDa)

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.



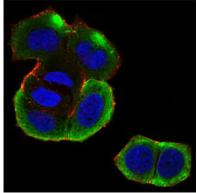


Figure 4: Immunofluorescence analysis of MCF-7 cells using CSNK2B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

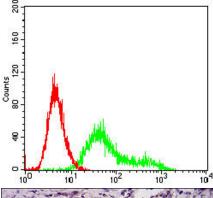


Figure 5: Flow cytometric analysis of Hela cells using CSNK2B mouse mAb (green) and negative control (red).

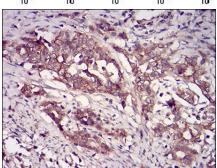


Figure 6: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CSNK2B mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.