10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

CSNK2B Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1988a

Specification

CSNK2B Antibody - Product Information

Application	**WB, FC, E**
Primary Accession	P67870
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**25kDa KDa**

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.

CSNK2B Antibody - 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
FC~~1/200 - 1/400
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.

CSNK2B Antibody - Protein Information

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Name CSNK2B (HGNC:2460)

Synonyms CK2N, G5A

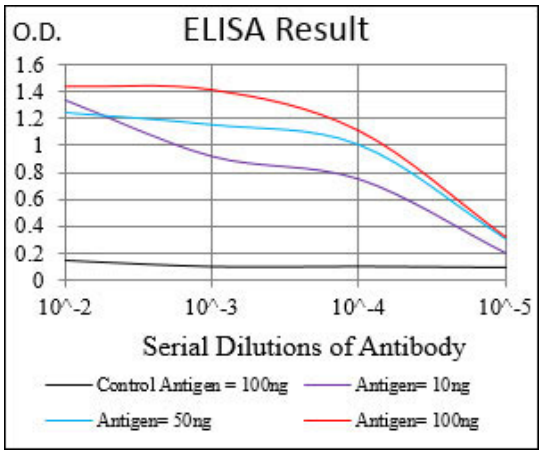
Function
Regulatory subunit of casein kinase II/CK2. As part of the kinase complex regulates the basal catalytic activity of the alpha subunit a constitutively active serine/threonine-protein kinase that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated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

Cellular Location
Nucleus.

CSNK2B Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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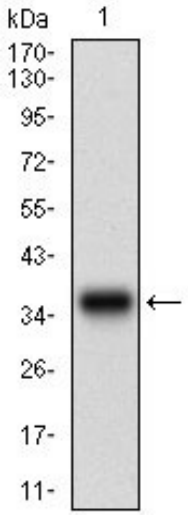

Figure 1: Western blot analysis using CSNK2B mAb against human CSNK2B (AA: FULL(1-215)) recombinant protein. (Expected MW is 35 kDa)

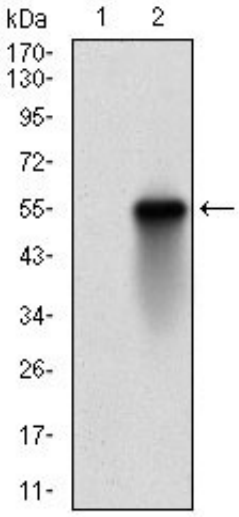

Figure 2: Western blot analysis using CSNK2B mAb against HEK293 (1) and CSNK2B (AA: FULL(1-215))-hIgGFc transfected HEK293 (2) cell lysate.

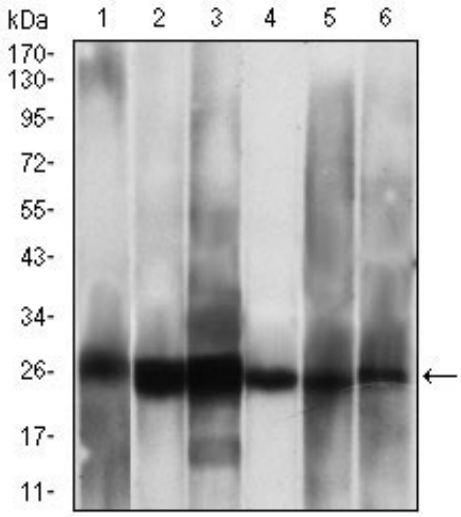

Figure 3: Western blot analysis using CSNK2B mouse mAb against Hela (1), Jurkat (2), C6 (3), MCF-7 (4), SK-N-SH (5), NTERA-2 (6) cell lysate.

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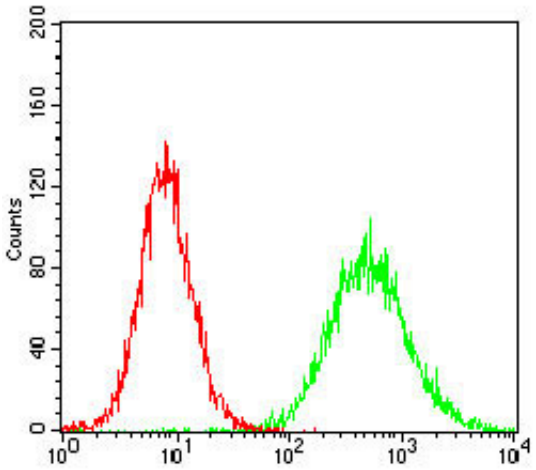

Figure 4: Flow cytometric analysis of Hela cells using CSNK2B mouse mAb (green) and negative control (red).

CSNK2B Antibody - Background

T protein p53 binding protein 1 may have a role in checkpoint signaling during mitosis,enhance TP53-mediated transcriptional activation and play a role in the response to DNA damage. ;

CSNK2B Antibody - 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.