

**CSNK2B Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1961a**

**Specification**

**CSNK2B Antibody - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | <b>E, WB, IF, FC, IHC</b> |
| Primary Accession | <a href="#">P67870</a>    |
| Reactivity        | <b>Human</b>              |
| Host              | <b>Mouse</b>              |
| Clonality         | <b>Monoclonal</b>         |
| Isotype           | <b>IgG1</b>               |
| Calculated MW     | <b>25kDa KDa</b>          |

**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**

E~~1/10000  
WB~~1/500 - 1/2000  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400  
IHC~~1/200 - 1/1000

**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

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](http://www.uniprot.org/citations/11239457), PubMed: [16818610](http://www.uniprot.org/citations/16818610)). Participates in Wnt signaling (By similarity).

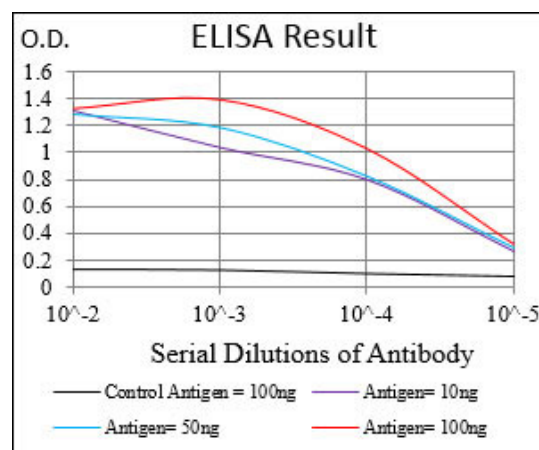
### Cellular Location

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 Cytometry](#)
- [Cell Culture](#)



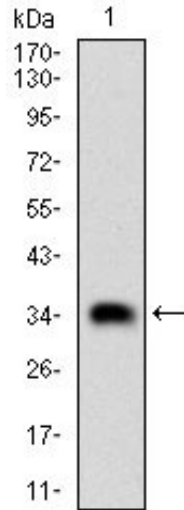


Figure 1: Western blot analysis using CSNK2B mAb against human CSNK2B (AA: FULL(1-215)) recombinant protein. (Expected MW is 35 kDa)

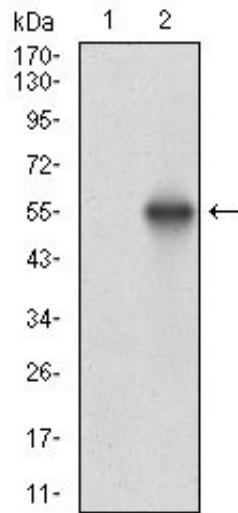


Figure 2: Western blot analysis using CSNK2B mAb against HEK293 (1) and CSNK2B (AA: FULL(1-215))-hlgGfc transfected HEK293 (2) cell lysate.

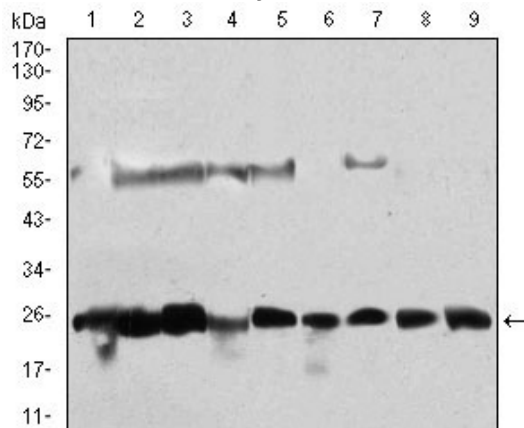


Figure 3: Western blot analysis using CSNK2B mouse mAb against HeLa (1), Jurkat (2), K562 (3), HepG2 (4), C6 (5), SK-N-SH (6), NTERA-2 (7), MCF-7 (8), NIH/3T3 (9) cell lysate.

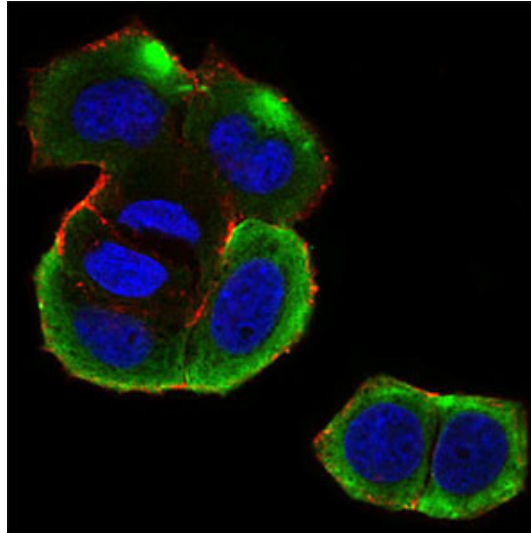


Figure 4: Immunofluorescence analysis of MCF-7 cells using CSNK2B mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

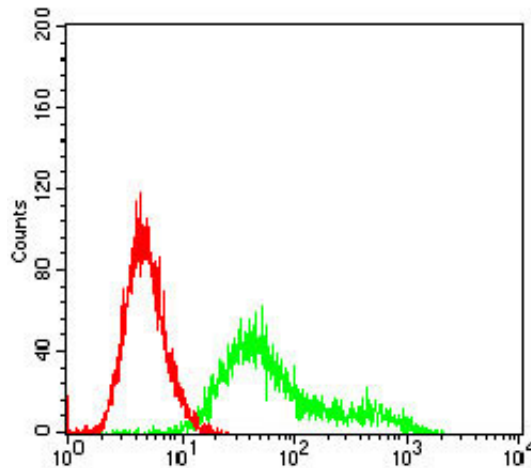


Figure 5: Flow cytometric analysis of HeLa cells using CSNK2B mouse mAb (green) and negative control (red).

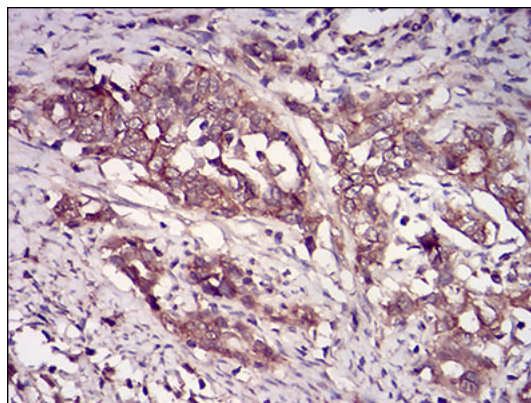


Figure 6: Immunohistochemical analysis of paraffin-embedded cervical cancer tissues using CSNK2B mouse mAb with DAB staining.

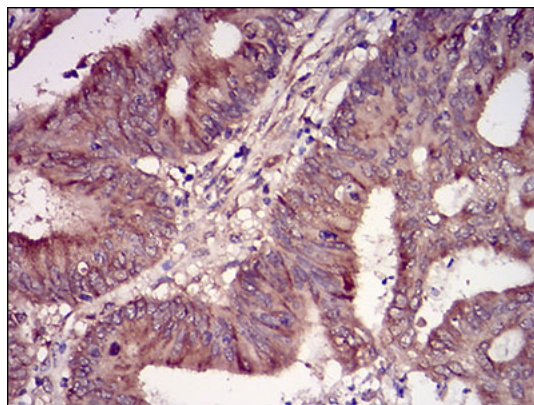


Figure 7: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using CSNK2B mouse mAb with DAB staining.

### **CSNK2B Antibody - Background**

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

### **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.