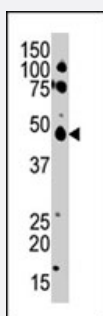


# CSNK1E polyclonal antibody

Catalog # PAB2877

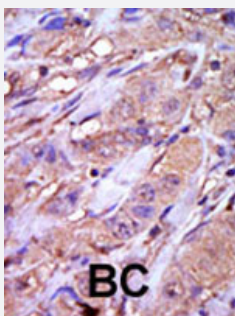
Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of CSNK1E polyclonal antibody (Cat # PAB2877) in SK-BR-3 cell lysate. CSNK1E (arrow) was detected using purified polyclonal antibody. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with CSNK1E polyclonal antibody (Cat # PAB2877), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

## Specification

|                            |                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against synthetic peptide of CSNK1E.                 |
| <b>Immunogen</b>           | A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human CSNK1E. |
| <b>Host</b>                | Rabbit                                                                                 |
| <b>Reactivity</b>          | Human                                                                                  |
| <b>Form</b>                | Liquid                                                                                 |
| <b>Purification</b>        | Protein G purification                                                                 |

|                            |                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommend Usage</b>     | Western Blot (1:1000)<br>Immunohistochemistry (1:50-100)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS (0.09% sodium azide)                                                                                                    |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                         |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.         |

## Applications

- Western Blot (Cell lysate)

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## Gene Info — CSNK1E

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">1454</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Accession#</b> | <a href="#">P49674</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>          | CSNK1E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Alias</b>         | HCKIE, MGC10398                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Description</b>   | casein kinase 1, epsilon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Omim ID</b>            | <a href="#">600863</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary</b>       | The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein is found in the cytoplasm as a monomer and can phosphorylate a variety of proteins, including itself. This protein has been shown to phosphorylate period, a circadian rhythm protein. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq] |

**Other Designations**

CKI-epsilon|OTTHUMP00000063258|OTTHUMP00000063263|casein kinase 1 epsilon|casein kinase I epsilon

## Publication Reference

- [Casein kinase I epsilon enhances the binding of Dvl-1 to Frat-1 and is essential for Wnt-3a-induced accumulation of beta-catenin.](#)

Hino S, Michiue T, Asashima M, Kikuchi A.

The Journal of Biological Chemistry 2003 Jan; 278(16):14066.

- [The circadian regulatory proteins BMAL1 and cryptochromes are substrates of casein kinase I epsilon.](#)

Eide EJ, Vielhaber EL, Hinz WA, Virshup DM.

The Journal of Biological Chemistry 2002 May; 277(19):17248.

Application: IF, WB-Tr, Human, HEK 293 cells

- [Phosphorylation and destabilization of human period 1 clock protein by human casein kinase I epsilon.](#)

Keesler GA, Camacho F, Guo Y, Virshup D, Mondadori C, Yao Z.

Neuroreport 2000 Apr; 11(5):951.

Application: IP, WB-Tr, Human, 293T cells

## Pathway

- [Circadian rhythm - mammal](#)
- [Hedgehog signaling pathway](#)
- [Wnt signaling pathway](#)

## Disease

- [Amphetamine-Related Disorders](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Chronobiology Disorders](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Heroin Dependence](#)
- [Mood Disorders](#)
- [NARP](#)
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- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychoses](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Sleep Disorders](#)