

Datasheet for ABIN967975  
**anti-CK1 epsilon antibody (AA 248-414)**

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## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 150 µg   |
| Target:              | CK1 epsilon (CSNK1E)   |
| Binding Specificity: | AA 248-414   |
| Reactivity:          | Human, Mouse, Rat, Dog, Chicken  |
| Host:                | Mouse  |
| Clonality:           | Monoclonal   |
| Conjugate:           | This CK1 epsilon antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Human Casein Kinase lepsilon aa. 248-414  |
| Clone:            | 1-Casein Kinase lepsilon  |
| Isotype:          | IgG1  |
| Cross-Reactivity: | Mouse (Murine), Rat (Rattus), Chicken, Dog (Canine)   |
| Characteristics:  | <ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Please refer to us for technical protocols.</li></ol> |

## Product Details

|               |   |
|---------------|---|
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. |
|---------------|---|

## Target Details

|                   |   |
|-------------------|---|
| Target:           | CK1 epsilon (CSNK1E)  |
| Alternative Name: | Casein Kinase Iepsilon ( <a href="#">CSNK1E Products</a> )  |
| Background:       | <p>Casein Kinase Iepsilon (CKIepsilon) is a product of a family of proteins involved in the regulation of various cytoplasmic and nuclear processes including DNA replication and repair. CKIepsilon is a 47.3 kDa serine/threonine kinase that plays a role similar to previously described CKI isoforms. It phosphorylates known CKI substrates, including a CKI-specific peptide. In addition, it is inhibited by CKI-7, an inhibitor of other CKI isoforms. CKIepsilon contains a core kinase domain of 285 amino acids which is 53-98% identical to other isoforms and is most similar in structure to CKIdelta. Since various human and yeast CKI proteins exhibit both sequence and functional similarities, CKIepsilon may be involved in mammalian DNA metabolism.</p> |
| Molecular Weight: | 47 kDa  |
| Pathways:         | <a href="#">Hedgehog Signaling</a> , <a href="#">M Phase</a>  |

## Application Details

|               |  |
|---------------|--|
| Comment:      | Related Products: ABIN968536, ABIN967389 |
| Restrictions: | For Research Use only                    |

## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 250 µg/mL  |
| Buffer:            | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.  |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store undiluted at -20°C.  |

## Publications

Product cited in:

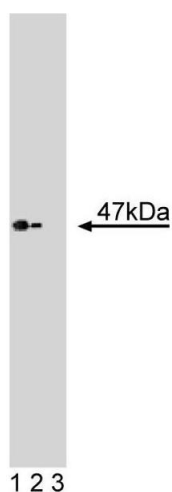
Akashi, Tsuchiya, Yoshino, Nishida: "Control of intracellular dynamics of mammalian period proteins by casein kinase I epsilon (CKIepsilon) and CKIdelta in cultured cells." in: **Molecular and cellular biology**, Vol. 22, Issue 6, pp. 1693-703, (2002) ([PubMed](#)).

Kishida, Hino Si, Michiue, Yamamoto, Kishida, Fukui, Asashima, Kikuchi: "Synergistic activation of the Wnt signaling pathway by Dvl and casein kinase I epsilon." in: **The Journal of biological chemistry**, Vol. 276, Issue 35, pp. 33147-55, (2001) ([PubMed](#)).

Peters, McKay, McKay, Graff: "Casein kinase I transduces Wnt signals." in: **Nature**, Vol. 401, Issue 6751, pp. 345-50, (1999) ([PubMed](#)).

Fish, Cegielska, Getman, Landes, Virshup: "Isolation and characterization of human casein kinase I epsilon (CKI), a novel member of the CKI gene family." in: **The Journal of biological chemistry**, Vol. 270, Issue 25, pp. 14875-83, (1995) ([PubMed](#)).

## Images



### Western Blotting

**Image 1.** Western blot analysis of Casein Kinase I epsilon on a human endothelial cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-Casein Kinase I epsilon antibody.



Immunofluorescence

**Image 2.** Immunofluorescence staining of human fibroblast cells stained with the mouse anti-Casein Kinase Iepsilon antibody.

**Image 3.**



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN967975.