

KD-Validated Anti-CSNK1E mouse monoclonal antibody
Mouse monoclonal antibody
Catalog # AGI1106**Specification****KD-Validated Anti-CSNK1E mouse monoclonal antibody - Product Information**

Application	WB, FC
Primary Accession	P49674
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 47 kDa, observed, 43 kDa
Gene Name	CSNK1E
Aliases	CSNK1E; Casein Kinase 1 Epsilon; CKIepsilon; HCKIE; CKIE; Casein Kinase I Isoform Epsilon; EC 2.7.11.1; Casein Kinase 1, Epsilon; CKI-Epsilon; EC 2.7.11; CKIe Recombinant protein of human CSNK1E
Immunogen	

KD-Validated Anti-CSNK1E mouse monoclonal antibody - Additional Information

Gene ID	1454
Other Names	
Casein kinase I isoform epsilon, CKI-epsilon, CKIe, 2.7.11.1, CSNK1E	

KD-Validated Anti-CSNK1E mouse monoclonal antibody - Protein Information**Name** CSNK1E**Function**

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (Probable). Participates in Wnt signaling (PubMed:[12556519](http://www.uniprot.org/citations/12556519), PubMed:[23413191](http://www.uniprot.org/citations/23413191)). Phosphorylates DVL1 (PubMed:[12556519](http://www.uniprot.org/citations/12556519)). Phosphorylates DVL2 (PubMed:[23413191](http://www.uniprot.org/citations/23413191)). Phosphorylates NEDD9/HEF1 (By similarity). Central component of the circadian clock (PubMed:[16790549](http://www.uniprot.org/citations/16790549)). In balance with PP1, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation (PubMed:[15917222](http://www.uniprot.org/citations/15917222), PubMed:[16790549](http://www.uniprot.org/citations/16790549)). Controls PER1 and PER2 nuclear transport and degradation (By similarity). Inhibits cytokine-induced granulocytic differentiation (PubMed:[15070676](http://www.uniprot.org/citations/15070676)).

Cellular Location

Cytoplasm. Nucleus.

Tissue Location

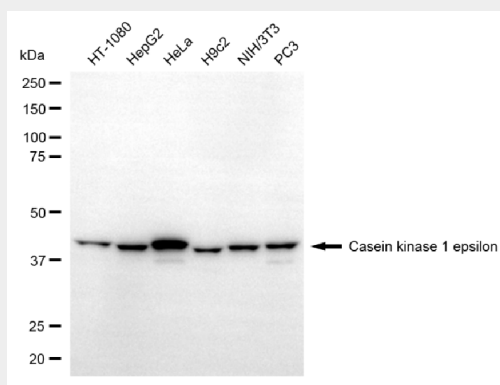
Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle Expressed in monocytes and lymphocytes but not in granulocytes

KD-Validated Anti-CSNK1E mouse monoclonal antibody - Protocols

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

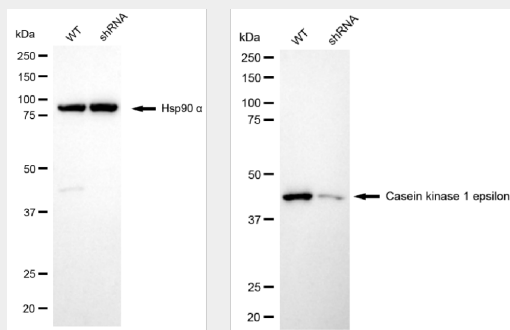
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-CSNK1E mouse monoclonal antibody - Images



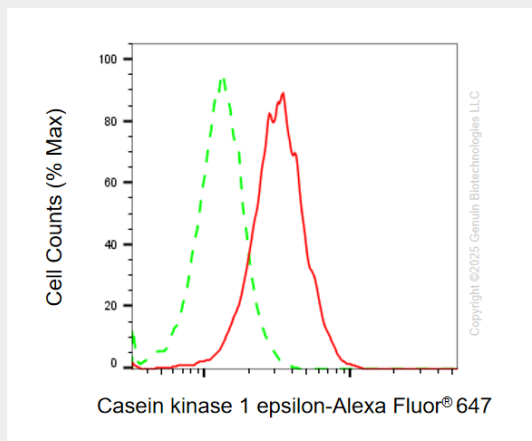
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Western blotting analysis using anti-casein kinase 1 epsilon antibody (Cat#AGI1106). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-casein kinase 1 epsilon antibody (Cat#AGI1106, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



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Western blotting analysis using anti-casein kinase 1 epsilon antibody (Cat#AGI1106). Casein kinase 1 epsilon expression in wild type (WT) and casein kinase 1 epsilon (CSNK1E) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-casein kinase 1 epsilon antibody (Cat#AGI1106, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Flow cytometric analysis of Casein kinase 1 epsilon expression in HT-1080 cells using anti-Casein kinase 1 epsilon antibody (Cat# AGI1106, 1:2,000). Green, isotype control; red, Casein kinase 1 epsilon.