

Product Name: KD-Validated CSNK1E Mouse Monoclonal Antibody**Catalog #: KVA01715**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 47.3kDa

Antigen Information

Gene Name	CSNK1E
Alternative Names	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
Gene ID	1454.0
SwissProt ID	P49674
Immunogen	Recombinant protein of human CSNK1E

Background

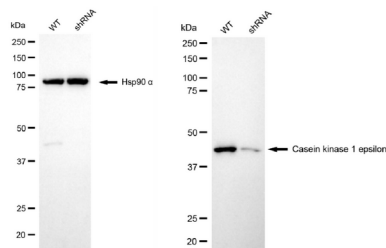
The protein encoded by this gene is a serine/threonine protein kinase and a member of the casein kinase I protein family, whose members have been implicated in the control of cytoplasmic and nuclear processes, including DNA replication and repair. The encoded protein is found in the cytoplasm as a monomer 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, Feb 2014]

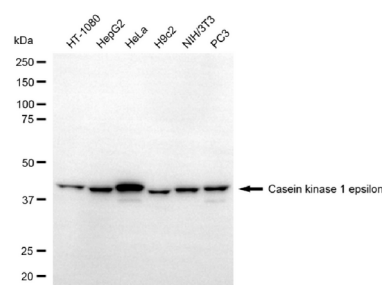
Research Area

Signal Transduction, Neuroscience

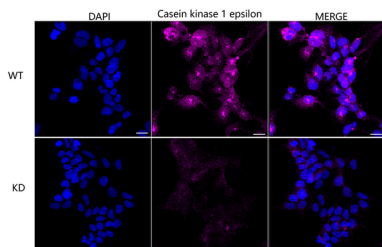
Image Data



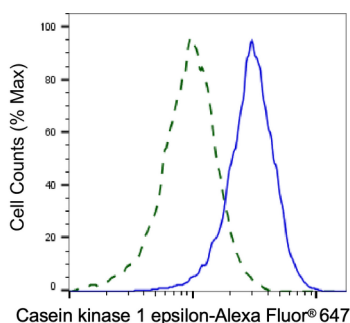
Western blotting analysis using casein kinase 1 epsilon antibody (KVA01715). Casein kinase 1 epsilon expression in wild type (WT) and casein kinase 1 epsilon (CSNK1E) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with casein kinase 1 epsilon antibody (KVA01715, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



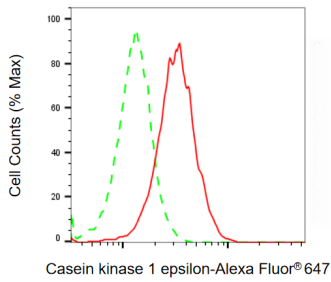
Western blotting analysis using casein kinase 1 epsilon antibody (KVA01715). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with casein kinase 1 epsilon antibody (KVA01715, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using Casein kinase 1 epsilon antibody (KVA01715, 1:1,000), Top panel: wild-type (WT); Bottom panel: Casein kinase 1 epsilon shRNA knockdown (KD). Nuclei were stained blue with DAPI; Casein kinase 1 epsilon was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Validation of Casein kinase 1 epsilon knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Casein kinase 1 epsilon antibody (KVA01715, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Casein kinase 1 epsilon expression in HT-1080 cells using Casein kinase 1 epsilon antibody (KVA01715, 1:2,000). Green, isotype control; red, Casein kinase 1 epsilon.