



Casein Kinase Iε Polyclonal Antibody

Catalog No	YP-Ab-14702
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	CSNK1E
Immunogen	The antiserum was produced against synthesized peptide derived from human CKI-epsilon. AA range:276-325
Specificity	Casein Kinase Iε Polyclonal Antibody detects endogenous levels of Casein Kinase Iε protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Casein Kinase 1 epsilon;casein kinase 1;epsilon;CKI epsilon;CKIε;CSNK1E;HCKIE;Casein Kinase Iε;Casein kinase I isoform epsilon;CKI-epsilon
Observed Band	47kD
Calculated Molecular Weight	47kD
Cell Pathway	Cytoplasm . Nucleus .
Tissue Specificity	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.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. Can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates DVL1. Central component of the circadian clock. May act as a negative regulator of circadian rhythmicity by phosphorylating PER1 and PER2. Retains PER1 in the cytoplasm. Inhibits cytokine-induced granulocytic differentiation.,induction:Down-



regulated during granulocytic differentiation.,PTM:Autophosphorylated., similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Monomer. Component of the circadian core oscillator, which includes the CRY pro

Background

casein kinase 1 epsilon(CSNK1E) Homo sapiens 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],

matters needing attention

Avoid repeated freezing and thawing!

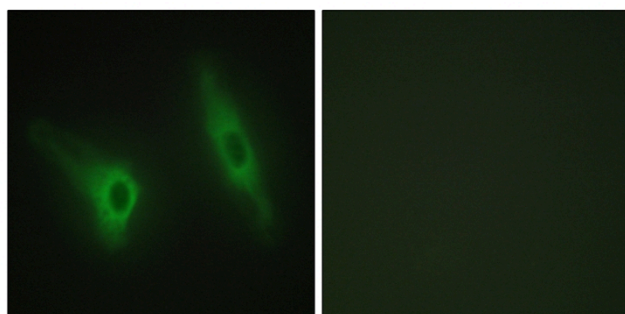
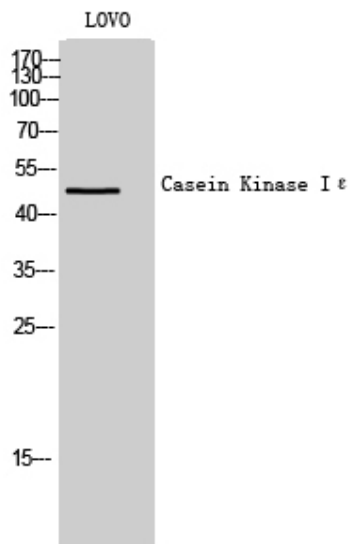
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

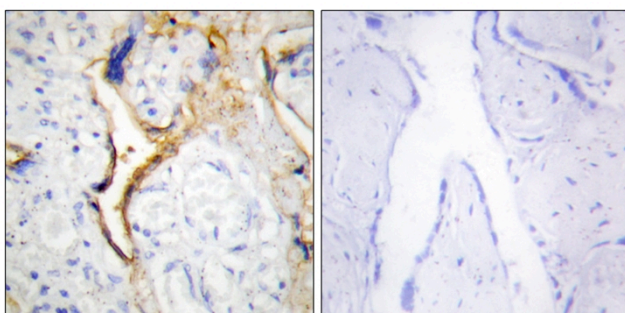


Products Images

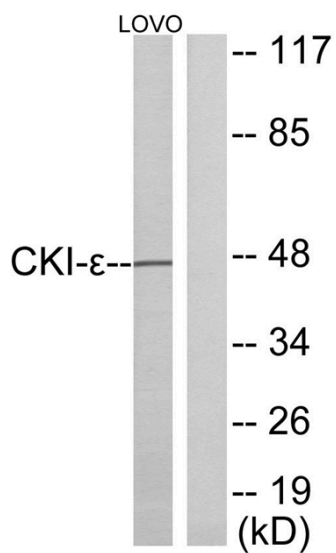
Western Blot analysis of LOVO cells using Casein Kinase Iε Polyclonal Antibody



Immunofluorescence analysis of HeLa cells, using CKI-epsilon Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using CKI-epsilon Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from LOVO cells, using CKI-epsilon Antibody. The lane on the right is blocked with the synthesized peptide.