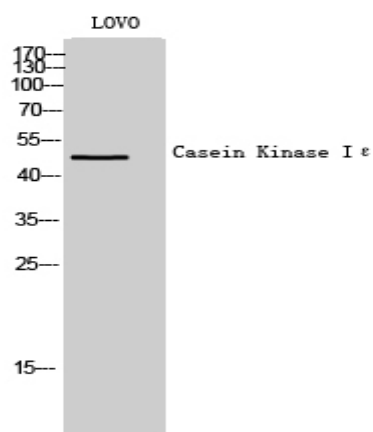


Casein Kinase Iε Polyclonal Antibody

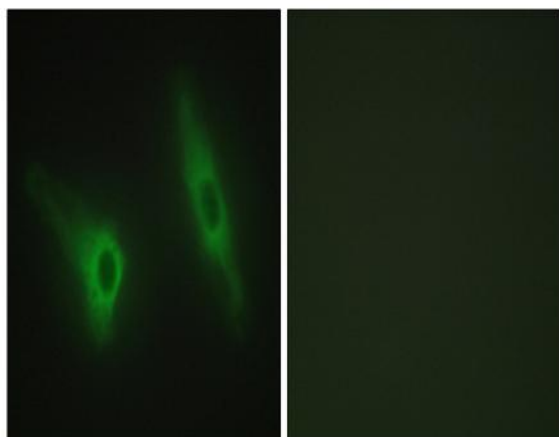
Catalog No :	YT0651
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	Casein Kinase Iε
Fields :	>>FoxO signaling pathway;>>Wnt signaling pathway;>>Hedgehog signaling pathway;>>Hippo signaling pathway;>>Hippo signaling pathway - multiple species;>>Circadian rhythm;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases
Gene Name :	CSNK1E
Protein Name :	Casein kinase I isoform epsilon
Human Gene Id :	1454
Human Swiss Prot No :	P49674
Mouse Gene Id :	27373
Mouse Swiss Prot No :	Q9JMK2
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
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	47kD
Cell Pathway :	WNT;WNT-T CELLHedgehog;Circadian rhythm;
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],
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 granulocyte differentiation.,induction:Down-regulated during granulocyte 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
Subcellular Location :	Cytoplasm . Nucleus .
Expression :	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.

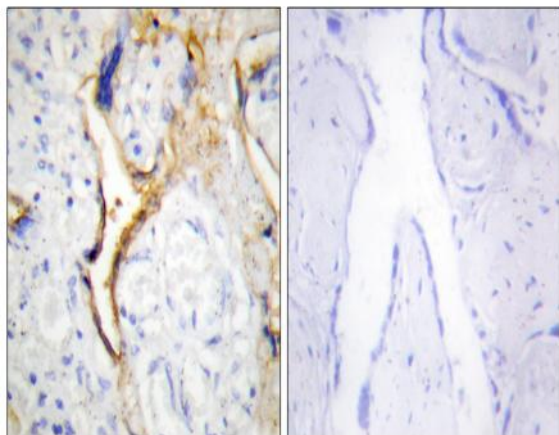
Products Images



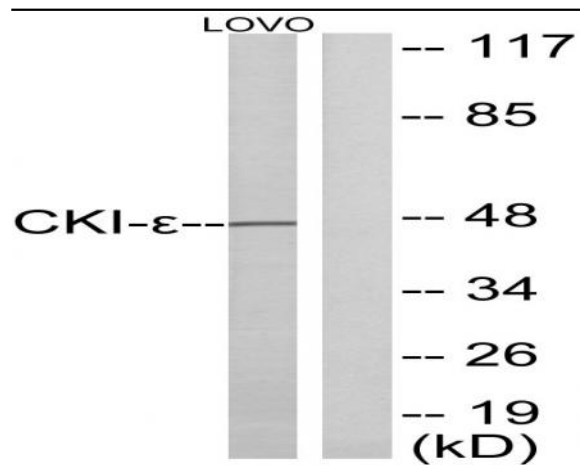
Western Blot analysis of LOVO cells using Casein Kinase I ϵ Polyclonal Antibody



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



Immunohistochemistry analysis of paraffin-embedded human placenta tissue, using CKI- ϵ 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.