

## Casein Kinase Iε Polyclonal Antibody

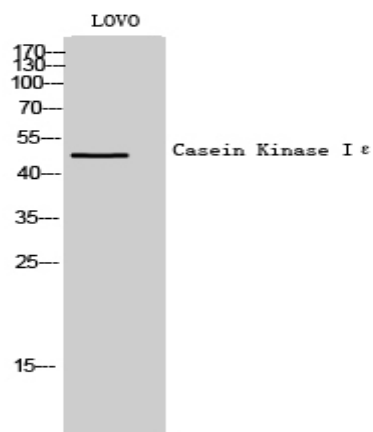
<b>Catalog No :</b>	YT0651
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Casein Kinase Iε
<b>Fields :</b>	>>FoxO signaling pathway;>>Wnt signaling pathway;>>Hedgehog signaling pathway;>>Hippo signaling pathway;>>Hippo signaling pathway - multiple species;>>Circadian rhythm;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases
<b>Gene Name :</b>	CSNK1E
<b>Protein Name :</b>	Casein kinase I isoform epsilon
<b>Human Gene Id :</b>	1454
<b>Human Swiss Prot No :</b>	P49674
<b>Mouse Gene Id :</b>	27373
<b>Mouse Swiss Prot No :</b>	Q9JMK2
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CKI-epsilon. AA range:276-325
<b>Specificity :</b>	Casein Kinase Iε Polyclonal Antibody detects endogenous levels of Casein Kinase Iε protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

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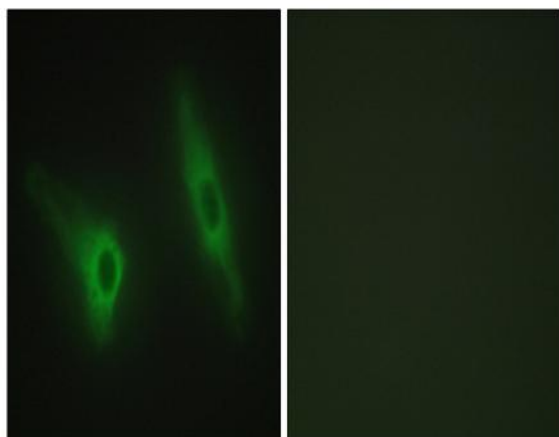
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	47kD
<b>Cell Pathway :</b>	WNT;WNT-T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

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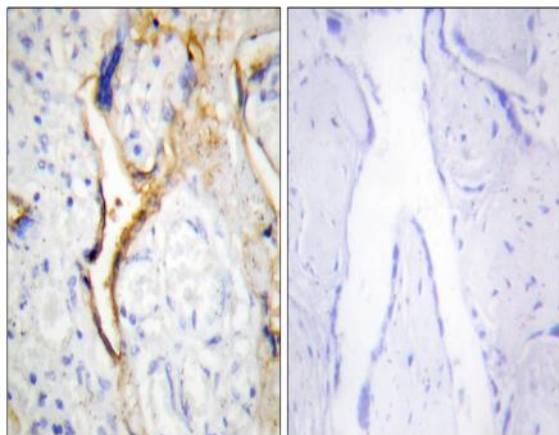
## Products Images



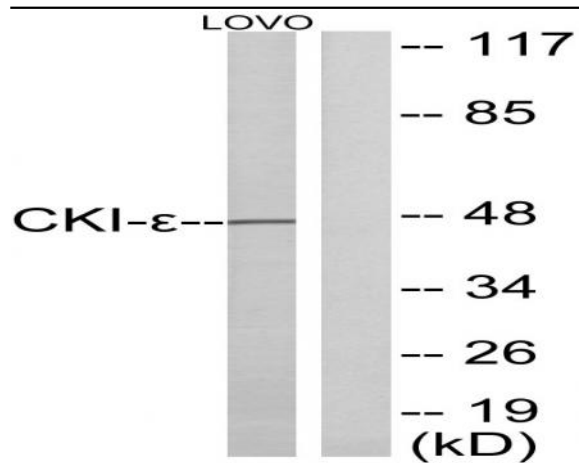
Western Blot analysis of LOVO cells using Casein Kinase I ε Polyclonal Antibody



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.