

## Casein Kinase I $\alpha$ Polyclonal Antibody

<b>Catalog No :</b>	YT0645
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Casein Kinase I $\alpha$
<b>Fields :</b>	>>Wnt signaling pathway;>>Hedgehog signaling pathway;>>Alzheimer disease;>>Pathways of neurodegeneration - multiple diseases;>>Human papillomavirus infection;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer
<b>Gene Name :</b>	CSNK1A1
<b>Protein Name :</b>	Casein kinase I isoform alpha
<b>Human Gene Id :</b>	1452
<b>Human Swiss Prot No :</b>	P48729
<b>Mouse Swiss Prot No :</b>	Q8BK63
<b>Rat Gene Id :</b>	113927
<b>Rat Swiss Prot No :</b>	P97633
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human CKI-alpha. AA range:126-175
<b>Specificity :</b>	Casein Kinase I $\alpha$ Polyclonal Antibody detects endogenous levels of Casein Kinase I $\alpha$ 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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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 35kD

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**Cell Pathway :** WNT;WNT-T CELLHedgehog;

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**Background :** 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. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 on 'Ser-45'. ,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. Interacts with the Axin complex.,

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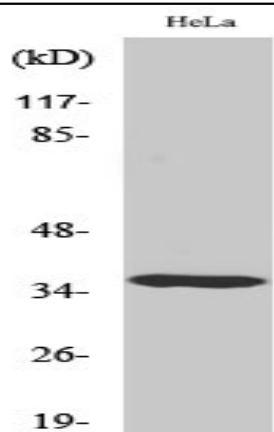
**Subcellular Location :** Cytoplasm . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Chromosome, centromere, kinetochore . Nucleus speckle . Cytoplasm, cytoskeleton, cilium basal body . Cytoplasm, cytoskeleton, spindle . Localizes to the centrosome in interphase cells, and to kinetochore fibers during mitosis. Also recruited to the keratin cytoskeleton (PubMed:23902688) .

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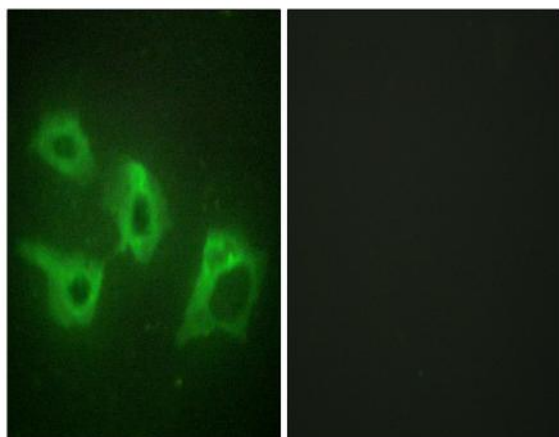
**Expression :** Brain,Epithelium,Liver,Lung,Placenta,Skin,

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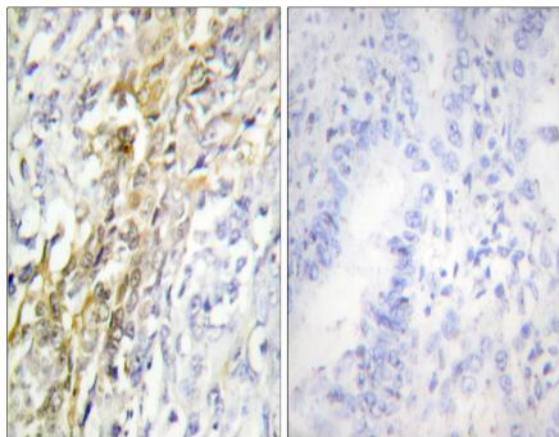
## Products Images



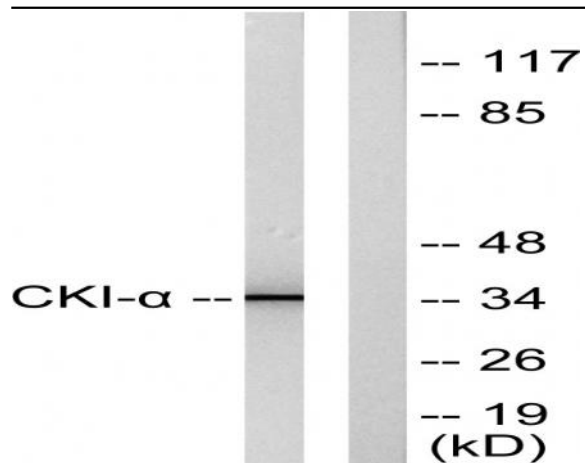
Western Blot analysis of various cells using Casein Kinase Ia Polyclonal Antibody



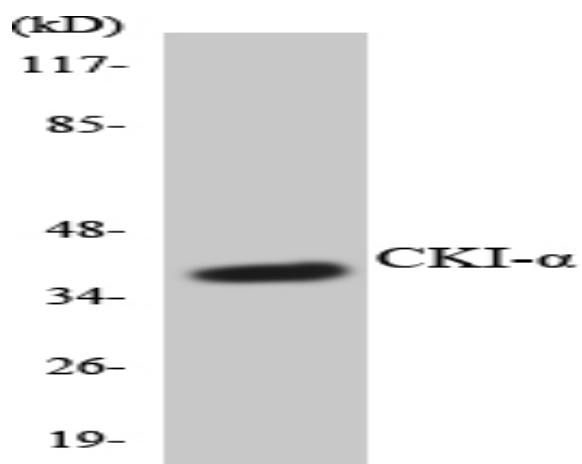
Immunofluorescence analysis of HeLa cells, using CKI-alpha Antibody. The picture on the right is blocked with the synthesized peptide.



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



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



Western blot analysis of the lysates from HT-29 cells using CKI-α antibody.