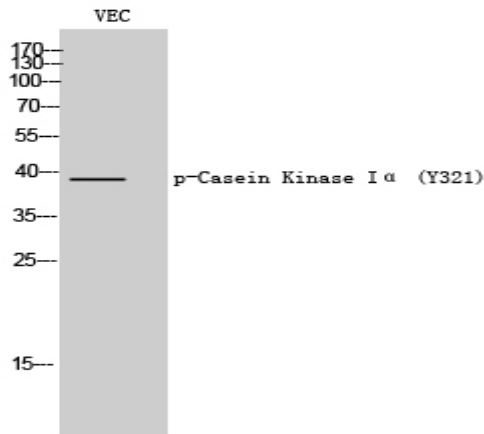


## Casein Kinase I $\alpha$ (phospho Thr321) Polyclonal Antibody

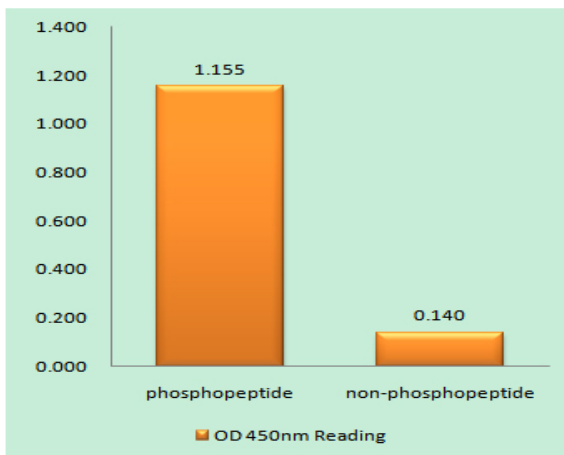
|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YP0392  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | Casein Kinase I $\alpha$  |
| <b>Fields :</b>              | >>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 Casein Kinase I alpha around the phosphorylation site of Tyr321. AA range:287-336   |
| <b>Specificity :</b>         | Phospho-Casein Kinase I $\alpha$ (Y321) Polyclonal Antibody detects endogenous levels of Casein Kinase I $\alpha$ protein only when phosphorylated at Y321.   |
| <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. ELISA: 1:5000.. IF 1:50-200   |
| <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>        | 35kD  |
| <b>Cell Pathway :</b>         | WNT;WNT-T CELLHedgehog;   |
| <b>Background :</b>           | <p>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.,</p> |
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| <b>Subcellular Location :</b> | <p>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) . .</p>   |
| <b>Expression :</b>           | Brain,Epithelium,Liver,Lung,Placenta,Skin,  |

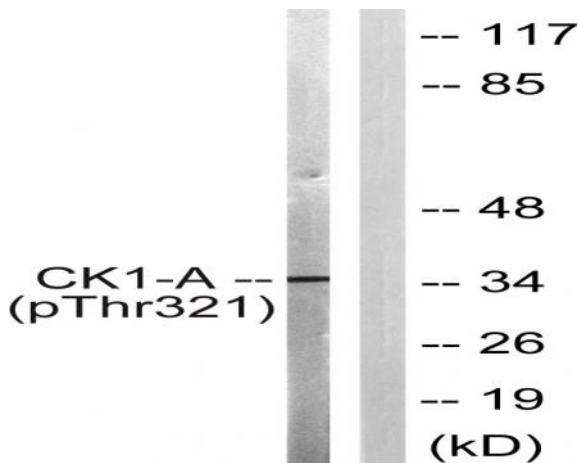
## Products Images



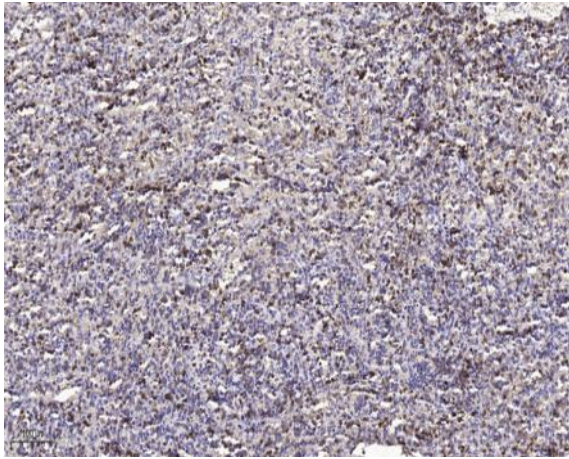
Western Blot analysis of VEC cells using Phospho-Casein Kinase Iα (Y321) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Casein Kinase I alpha (Phospho-Tyr321) Antibody



Western blot analysis of lysates from HUVEC cells, using Casein Kinase I alpha (Phospho-Tyr321) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human spleen tissue. 1,primary Antibody was diluted at 1:200(4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98 °C,20min). 3,Secondary antibody was diluted at 1:200