

## Casein Kinase I $\alpha$ (Phospho Thr321) Rabbit pAb

CatalogNo: YP0392

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 35kD (Observed)

#### Isotype

- IgG

### Storage

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

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:5000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Casein Kinase I alpha around the phosphorylation site of Tyr321. AA range:287-336

## Specificity

Phospho-Casein Kinase I $\alpha$  (Y321) Polyclonal Antibody detects endogenous levels of Casein Kinase I $\alpha$  protein only when phosphorylated at Y321. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):AQtPT

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## | Target Information

**Gene name** CSNK1A1

**Protein Name** Casein kinase I isoform alpha

Organism	Gene ID	UniProt ID
Human	<a href="#">1452;</a>	<a href="#">P48729;</a>
Mouse		<a href="#">Q8BK63;</a>
Rat	<a href="#">113927;</a>	<a href="#">P97633;</a>

### Cellular Localization

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) . .

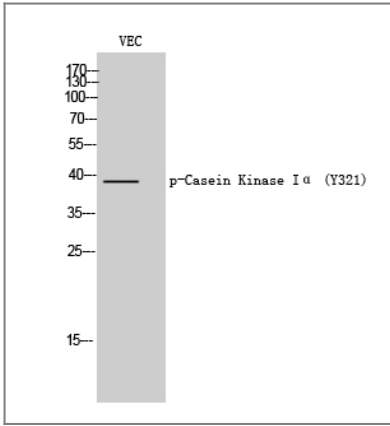
**Tissue specificity** Brain ,Epithelium ,Liver ,Lung ,Placenta ,Skin ,

### Function

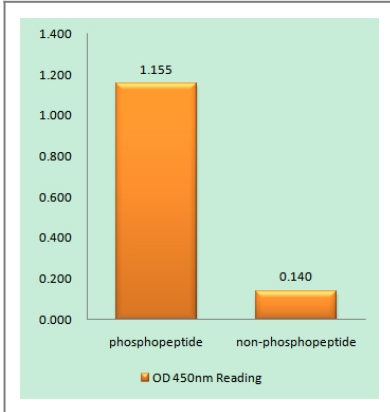
Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Function:Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 on '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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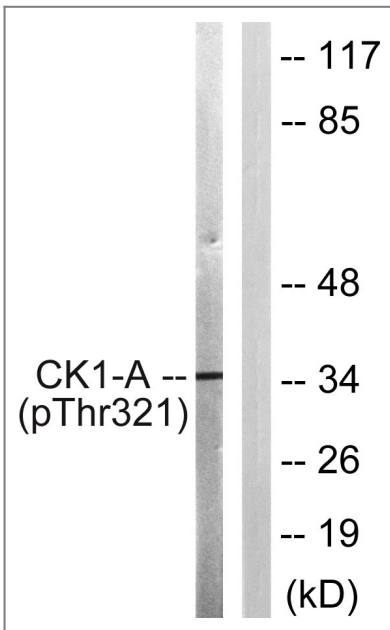
## | Validation Data



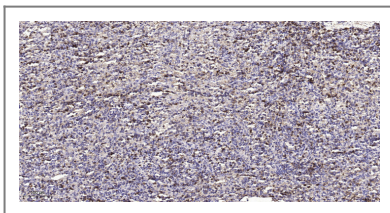
Western Blot analysis of VEC cells using Phospho-Casein Kinase I $\alpha$  (Y321) Polyclonal Antibody



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°C overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval (>98°C,20min). 3,Secondary antibody was diluted at 1:200

## Contact information

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Please scan the QR code  
to access additional  
product information:  
**Casein Kinase I $\alpha$**   
**(Phospho Thr321)**  
**Rabbit pAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)