

**Casein Kinase 1 alpha Rabbit mAb**  
Catalog # AP75190**Specification****Casein Kinase 1 alpha Rabbit mAb - Product Information**

Application	WB
Primary Accession	<a href="#">P48729</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	38915

**Casein Kinase 1 alpha Rabbit mAb - Additional Information**

Gene ID 1452

**Other Names**  
CSNK1A1**Dilution**  
WB~~1/500-1/1000**Format**  
Liquid**Casein Kinase 1 alpha Rabbit mAb - Protein Information****Name** CSNK1A1**Function**

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (PubMed: [11955436](http://www.uniprot.org/citations/11955436), PubMed: [1409656](http://www.uniprot.org/citations/1409656), PubMed: [18305108](http://www.uniprot.org/citations/18305108), PubMed: [23902688](http://www.uniprot.org/citations/23902688)). It can phosphorylate a large number of proteins (PubMed: [11955436](http://www.uniprot.org/citations/11955436), PubMed: [1409656](http://www.uniprot.org/citations/1409656), PubMed: [18305108](http://www.uniprot.org/citations/18305108), PubMed: [23902688](http://www.uniprot.org/citations/23902688)). Participates in Wnt signaling (PubMed: [11955436](http://www.uniprot.org/citations/11955436)). Phosphorylates CTNNB1 at 'Ser-45' (PubMed: [11955436](http://www.uniprot.org/citations/11955436)). May phosphorylate PER1 and PER2 (By similarity). May play a role in segregating chromosomes during mitosis (PubMed: [1409656](http://www.uniprot.org/citations/1409656)). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed: [23902688](http://www.uniprot.org/citations/23902688)). Acts as a

positive regulator of mTORC1 and mTORC2 signaling in response to nutrients by mediating phosphorylation of DEPTOR inhibitor (PubMed:<a href="http://www.uniprot.org/citations/22017875" target="\_blank">22017875</a>, PubMed:<a href="http://www.uniprot.org/citations/22017877" target="\_blank">22017877</a>). Acts as an inhibitor of NLRP3 inflammasome assembly by mediating phosphorylation of NLRP3 (By similarity).

#### Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, centromere, kinetochore. Nucleus speckle. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q8BK63}. Cytoplasm, cytoskeleton, spindle {ECO:0000250|UniProtKB:Q8BK63}. Note=Localizes to the centrosome in interphase cells, and to kinetochore fibers during mitosis. Also recruited to the keratin cytoskeleton (PubMed:23902688)

#### Casein Kinase 1 alpha Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Casein Kinase 1 alpha Rabbit mAb - Images

