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KD-Validated Anti-CSNK1A1 Rabbit Monoclonal Antibody

Rabbit monoclonal Antibody
Catalog # AGI2198

Product Information

Application	WB, FC
Primary Accession	P48729
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	25GB125
Calculated MW	38915
Gene Name	CSNK1A1
Aliases	CSNK1A1; Casein Kinase 1 Alpha 1; CK1; CK1a; CKIa; Casein Kinase I Isoform Alpha; Clock Regulator Kinase; EC 2.7.11.1; CKI-Alpha; CK1alpha; CKIalpha; Epididymis Secretory Sperm Binding Protein Li 77p; Down-Regulated In Lung Cancer; Casein Kinase 1, Alpha; HEL-S-77p; HLCDGP1; PRO2975
Immunogen	A synthesized peptide derived from human Casein Kinase 1 alpha

Additional Information

Gene ID	1452
Other Names	Casein kinase I isoform alpha, CKI-alpha, 2.7.11.1, CK1, CSNK1A1

Protein Information

Name	CSNK1A1
Function	Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates (PubMed:11955436, PubMed:1409656, PubMed:18305108, PubMed:23902688). Phosphorylates a large number of proteins (PubMed:11955436, PubMed:1409656, PubMed:18305108, PubMed:23902688). Participates in Wnt signaling (PubMed:11955436). Phosphorylates CTNNB1 at 'Ser-45' (PubMed:11955436). May phosphorylate PER1 and PER2 (By similarity). May play a role in segregating chromosomes during mitosis (PubMed:1409656). May play a role in keratin cytoskeleton disassembly and thereby, it may regulate epithelial cell migration (PubMed:23902688). Acts as a positive regulator of mTORC1 and mTORC2 signaling in response to nutrients by mediating phosphorylation of DEPTOR inhibitor (PubMed:22017875, PubMed:22017877). 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)

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