

Rabbit anti-Human, Mouse CKI-epsilon Polyclonal Antibody | anti-CSNK1E antibody

CKI-epsilon Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323891	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

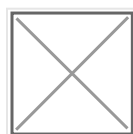
PRODUCT SYNONYMS

CKI-epsilon; Polyclonal Antibody; CKI-epsilon Antibody; Casein kinase 1 epsilon; Casein kinase I; Casein kinase I epsilon; Casein kinase I isoform epsilon; CKI epsilon; CKIε; CKIεpsilon; CSNK 1E; CSNK1E; DBT; Doubletime; Drosophila; homolog of; EC 2.7.11.1; epsilon isoform; HCK IE; KC1E; KC1E_HUMAN; kinase CK1 epsilon; MGC 10398; anti-CSNK1E antibody

PRODUCT SPECIFICATIONS

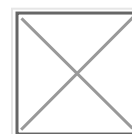
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	CKI-epsilon antibody detects endogenous levels of total CKI-epsilon
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	416
Applicable Applications for anti-CSNK1E antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Expressed in all tissues examined, including brain, heart, lung, liver, pancreas, kidney, placenta and skeletal muscle. Expressed in monocytes and lymphocytes but not in granulocytes.
Predicted Cross Reactivity	Dog, Chicken, Xenopus
Similarity	Dog (100%), Chicken (83%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using CKI-epsilon Antibody. Lane 1 was treated with the blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from LOVO cells, using CKI-epsilon antibody.



IF (Immunofluorescence)

AAA323891 staining LOVO cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA323891 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-CSNK1E antibody

Function: Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. Can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates DVL1 and DVL2. Central component of the circadian clock. In balance with PP1, determines the circadian period length, through the regulation of the speed and rhythmicity of PER1 and PER2 phosphorylation. Controls PER1 and PER2 nuclear transport and degradation. Inhibits cytokine-induced granulolytic differentiation.

Subunit Structure: Monomer. Component of the circadian core oscillator, which includes the CRY proteins, CLOCK, or NPAS2, ARTNL/BMAL1 or ARTNL2/BMAL2, CSNK1D and/or CSNK1E, TIMELESS and the PER proteins. Interacts with ANKRD6, DBNDD2, LRP5, LRP6 and SOCS3. Interacts with SNAI1 (via zinc fingers). Interacts with DDX3X; the interaction greatly improves CSNK1E affinity for ATP and enhances DVL2 phosphorylation (PubMed:23413191).

Post-translational Modifications: Autophosphorylated. Partially dephosphorylated by PPP5C. May be dephosphorylated by PP1.

Similarity: Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	583966087
NCBI GeneID	102800317
NCBI Accession #	NP_001276841.1
NCBI GenBank Nucleotide #	NM_001289912.1
UniProt Accession #	P49674
Molecular Weight	Observed: 47 kD Predicted: 48 kDa
NCBI Official Full Name	casein kinase I isoform epsilon
NCBI Official Synonym Full Names	TPTEP2-CSNK1E readthrough
NCBI Official Symbol	TPTEP2-CSNK1E
NCBI Official Synonym Symbols	LOC400927-CSNK1E
NCBI Protein Information	casein kinase I isoform epsilon
UniProt Protein Name	Casein kinase I isoform epsilon
UniProt Gene Name	CSNK1E
UniProt Synonym Gene Names	CKI-epsilon; CKIe

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cki-epsilon-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/323891>