

Rabbit Casein Kinase Iggamma2 Polyclonal Antibody | anti-CSNK1G2 antibody

Casein Kinase Iggamma2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322496	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Casein Kinase Iggamma2; Polyclonal Antibody; Casein Kinase Iggamma2 Antibody; Casein kinase 1 gamma 2; Casein kinase I isoform gamma 1; Casein kinase I isoform gamma 3; Casein kinase I isoform gamma-2; CK1g2; CKI gamma 1; CKI gamma 2; CKI gamma 3; CSNK1G1; CSNK1G2; CSNK1G3; anti-CSNK1G2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Casein Kinase Iggamma2 antibody detects endogenous levels of total Casein Kinase Iggamma2
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	415
Applicable Applications for anti-CSNK1G2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Casein Kinase Iggamma2
Subcellular Location	Cytoplasm.
Tissue Specificity	Testis.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Sheep (100%), Dog (100%), Chicken (92%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322496 staining HeLa 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) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA322496 at 1/100 staining Mouse spleen 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.



WB (Western Blot)

Western blot analysis of Casein Kinase Igamma2 using HeLa whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-CSNK1G2 antibody

Function: Serine/threonine-protein kinase. 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 COL4A3BP/CERT, MTA1 and SMAD3. Involved in brain development and vesicular trafficking and neurotransmitter releasing from small synaptic vesicles. Regulates fast synaptic transmission mediated by glutamate. SMAD3 phosphorylation promotes its ligand-dependent ubiquitination and subsequent proteasome degradation, thus inhibiting SMAD3-mediated TGF-beta responses. Hyperphosphorylation of the serine-repeat motif of COL4A3BP/CERT leads to its inactivation by dissociation from the Golgi complex, thus down-regulating ER-to-Golgi transport of ceramide and sphingomyelin synthesis. Triggers PER1 proteasomal degradation probably through phosphorylation.

Subunit Structure: Monomer (By similarity). Interacts with MTA1 (short isoform) in the cytoplasm. Interacts with SMAD3.

Post-translational Modifications: Autophosphorylated.

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	153791733
NCBI GeneID	1455
NCBI Accession #	NP_001310.3
NCBI GenBank Nucleotide #	NM_001319.6
UniProt Accession #	P78368; O00704; Q8WUB1; B5BU42
Molecular Weight	Observed: 47 kDa Predicted: 48 kDa
NCBI Official Full Name	casein kinase I isoform gamma-2
NCBI Official Synonym Full Names	casein kinase 1 gamma 2
NCBI Official Symbol	CSNK1G2
NCBI Official Synonym Symbols	CK1g2
NCBI Protein Information	casein kinase I isoform gamma-2; casein kinase I
UniProt Protein Name	Casein kinase I isoform gamma-2
UniProt Gene Name	CSNK1G2

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/casein-kinase-igamma2-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322496>