

Mouse anti-Human Casein Kinase 1 alpha Monoclonal Antibody | anti-CSNK1A1 antibody

Casein Kinase 1 alpha antibody

CATALOG # AAA48065	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

Casein Kinase 1 alpha; Monoclonal Antibody; Casein Kinase 1 alpha antibody; CK1; anti-CSNK1A1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	AT2E2
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	337
Applicable Applications for anti-CSNK1A1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant human Casein Kinase 1 alpha (1-337aa) purified from E. coli
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage , aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of Casein Kinase 1 alpha in HeLa cells line, stained with AAA48065 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue)



WB (Western Blot)

Figure 1: The cell lysates of HeLa and MCF7 (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Casein Kinase 1 alpha (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Figure 2: The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Casein kinase 1 alpha antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Jurkat cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-CSNK1A1 antibody	Caseine Kinase 1 alpha belongs to the protein kinase superfamily, CK1 Ser/Thr protein kinase family, Casein kinase I subfamily. CK1 isoforms (alpha, beta, gamma, delta, epsilon) and their splice variants are involved in diverse cellular processes including membrane trafficking, circadian rhythm, cell cycle progression, chromosome segregation, apoptosis and cellular differentiation. Perhaps it can phosphorylate a large number of proteins and is involved in Wnt signaling where it phosphorylates CTNNB1 on Ser45. Caseine kinase 1 alpha also interacts with the Axin complex
Product Categories/Family for anti-CSNK1A1 antibody	Signal Transduction
References	Knippschild U, et al., (2005) Onkologie. 28 (10):508-14; Katoh M., (2007) Clin Cancer Res. 13 (14):4042-5

NCBI AND UNIPROT INFORMATION

NCBI GI #	68303572
NCBI GeneID	1452
NCBI Accession #	NP_001883
NCBI GenBank Nucleotide #	NM_001892.5
UniProt Accession #	P48729; Q4JJA0; Q5U046; Q5U047; Q6FGA2; Q71TU5; Q96HD2; Q9UDK3; D3DQG0; D3DQG1
NCBI Official Full Name	casein kinase I isoform alpha isoform 2
NCBI Official Synonym Full Names	casein kinase 1 alpha 1
NCBI Official Symbol	CSNK1A1
NCBI Official Synonym Symbols	CK1; CK1a; CKIa; HLCDGP1; PRO2975; HEL-S-77p
NCBI Protein Information	casein kinase I isoform alpha
UniProt Protein Name	Casein kinase I isoform alpha
UniProt Gene Name	CSNK1A1
UniProt Synonym Gene Names	CKI-alpha

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/monoclonal/casein-kinase-1-alpha-antibody-clone-at2e2-immunofluorescence-immunocytochemistry-western-blot-elisa/48065>