

Rabbit anti-Mouse CK2 alpha/CSNK2A1 Polyclonal Antibody | anti-CSNK2A1 antibody

Anti-CK2 alpha/CSNK2A1 Antibody, Rabbit Polyclonal

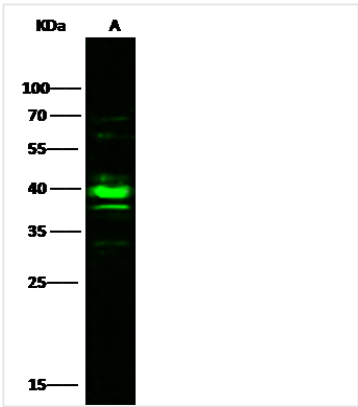
CATALOG # AAA257232	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

CK2 alpha/CSNK2A1; Polyclonal Antibody; Anti-CK2 alpha/CSNK2A1 Antibody; Rabbit Polyclonal; CSNK2A1/CK2A1 Antibody; Rabbit PAb; Antigen Affinity Purified; casein kinase 2; alpha 1 polypeptide; Anti-Csnk2a1-rs4 Antibody; anti-CSNK2A1 antibody

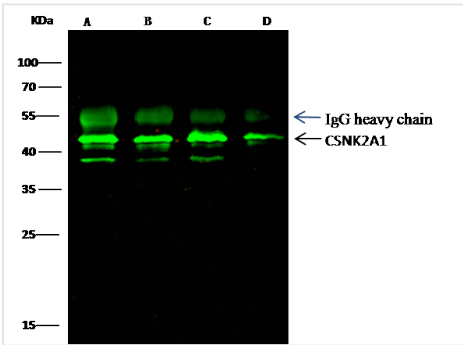
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse CSNK2A1/CK2A1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CSNK2A1 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Mouse CSNK2A1/CK2A1 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Mouse CSNK2A1/CK2A1 (rM CSNK2A1/CK2A1). CSNK2A1/CK2A1 specific IgG was purified by Mouse CSNK2A1/CK2A1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)

Anti-CSNK2A1 rabbit polyclonal antibody at 1:500 dilutionLane A: Jurkat Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:45 kDaObserved band size:40 kDa(We are unsure as to the identity of these extra bands.



IP (Immunoprecipitation)

Mouse CSNK2A1 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg HepG2 Whole Cell Lysate Lane C: 0.5 mg 293T Whole Cell Lysate Lane D: 0.5 mg Raji Whole Cell Lysate 2 uL anti-Mouse CSNK2A1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Mouse CSNK2A1 rabbit polyclonal antibody, at 1:330 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa Observed band size: 45 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CSNK2A1 antibody	Casein kinase II subunit alpha, also known as CK II alpha, CSNK2A1 and CK2A1, is a member of the protein kinase superfamily, Ser/Thr protein kinase family and CK2 subfamily. Casein kinase II (CSNK2A1) is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. This kinase is composed of an alpha, an alpha-prime, and two beta subunits. The alpha subunits contain the catalytic activity while the beta subunits undergo autophosphorylation. Casein kinase II (CSNK2A1) is a constitutively active, ubiquitously expressed serine/threonine protein kinase that is thought to have a regulatory function in cell proliferation, cell differentiation and apoptosis. CSNK2A1 functions as a tetrameric complex consisting of two regulatory beta-subunits and two catalytic units (alpha and alpha') in a homomeric or heteromeric conformation. Whilst the alpha-and alpha'-subunits are catalytically identical, proteins that regulate CSNK2A1, such as cdc2 and Hsp90, preferentially bind to the alpha and not the alpha'-subunit. CSNK2A1 can phosphorylate a number of key intracellular signaling proteins implicated in tumor suppression (p53 and PTEN) and tumorigenesis (myc, jun, NF-kappaB). CSNK2A1 is also thought to influence Wnt signaling via beta-catenin phosphorylation and the PI 3-K signaling pathway via the phosphorylation of Akt.
References	Schlpfer J, et al. (1997) A radiation hybrid framework map of bovine chromosome 13. Chromosome Res. 5(8): 511-9. Wirkner U, et al. (1994) The human gene (CSNK2A1) coding for the casein kinase II subunit alpha is located on chromosome 20 and contains tandemly arranged Alu repeats. Genomics. 19(2): 257-65. Wirkner U, et al. (1998) Genomic organization and promoter identification of the human protein kinase CK2 catalytic subunit alpha (CSNK2A1). Genomics. 48(1): 71-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31542427
NCBI GeneID	12995
NCBI Accession #	NP_031814.2
NCBI GenBank Nucleotide #	NM_007788.3
UniProt Accession #	Q60737; Q8R0X4
Molecular Weight	45,134 Da
NCBI Official Full Name	casein kinase II subunit alpha
NCBI Official Synonym Full Names	casein kinase 2, alpha 1 polypeptide
NCBI Official Symbol	Csnk2a1

NCBI Official Synonym Symbols	Csnk2a1-rs4
NCBI Protein Information	casein kinase II subunit alpha
UniProt Protein Name	Casein kinase II subunit alpha
UniProt Gene Name	Csnk2a1
UniProt Synonym Gene Names	Ckiiα; CK II 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/polyclonal/ck2-alpha-csnk2a1-antibody-immunoprecipitation-western-blot-elisa/257232>