

Rabbit CSNK2A2 Polyclonal Antibody | anti-CSNK2A2 antibody

Anti-CSNK2A2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126399	Rabbit	Human, Mouse, Rat	Western Blot, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

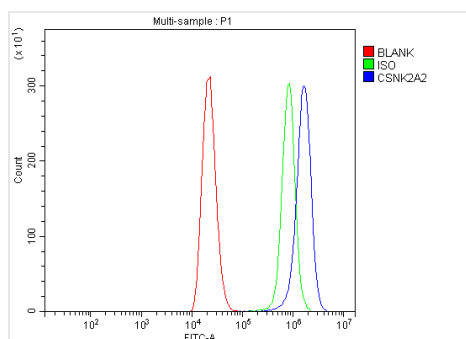
PRODUCT SYNONYMS

CSNK2A2; Polyclonal Antibody; Anti-CSNK2A2 Antibody Picoband; anti-CSNK2A2 antibody

PRODUCT SPECIFICATIONS

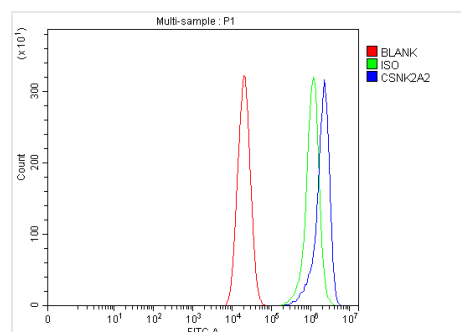
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-CSNK2A2 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human CSNK2A2 (EHPYFYPVKEQSQPCADNAVLSGLTAAR).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



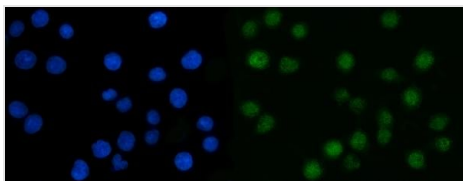
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-CSNK2A2 antibody (AAA126399). Overlay histogram showing THP-1 cells stained with AAA126399 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CSNK2A2 Antibody (AAA126399, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



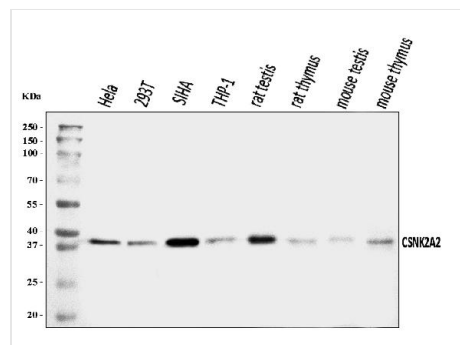
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of Caco-2 cells using anti-CSNK2A2 antibody (AAA126399). Overlay histogram showing Caco-2 cells stained with AAA126399 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CSNK2A2 Antibody (AAA126399, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of CSNK2A2 using anti-CSNK2A2 antibody (AAA126399). CSNK2A2 was detected in an immunocytochemical section of Caco-2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-CSNK2A2 Antibody (AAA126399) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of CSNK2A2 using anti-CSNK2A2 antibody (AAA126399). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HeLa whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human SiHa whole cell lysates, Lane 4: human THP-1 whole cell lysates, Lane 5: rat testis tissue lysates, Lane 6: rat thymus tissue lysates, Lane 7: mouse testis tissue lysates, Lane 8: mouse thymus tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CSNK2A2 antigen affinity purified polyclonal antibody (#AAA126399) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CSNK2A2 at approximately 39 kDa. The expected band size for CSNK2A2 is at 41 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CSNK2A2 antibody

Casein kinase II subunit alpha' is an enzyme that in humans is encoded by the CSNK2A2 gene. This gene encodes the alpha', or alpha 2, catalytic subunit of the protein kinase enzyme, casein kinase 2 (CK2). Casein kinase 2 is a serine/threonine protein kinase that phosphorylates acidic proteins such as casein. It is involved in various cellular processes, including cell cycle control, apoptosis, and circadian rhythms. This heterotetrameric kinase includes two catalytic subunits, either alpha or alpha', and two regulatory beta subunits. The closely related gene paralog encoding the alpha, or alpha 1 subunit (CSNK2A1, Gene ID: 1457) is found on chromosome 20. An intronic variant in this gene (alpha 2) may be associated with leukocyte telomere length in a South Asian population. A related transcribed pseudogene is found on chromosome 11.

Product Categories/Family for anti-CSNK2A2 antibody

[Primary Antibodies](#), [Rabbit Polyclonal Antibodies](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	125266
NCBI GeneID	1459
UniProt Accession #	P19784
Molecular Weight	350
NCBI Official Full Name	Casein kinase II subunit alpha'
NCBI Official Synonym Full Names	casein kinase 2, alpha prime polypeptide
NCBI Official Symbol	CSNK2A2
NCBI Official Synonym Symbols	CK2A2; CSNK2A1
NCBI Protein Information	casein kinase II subunit alpha'; CK II alpha'
UniProt Protein Name	Casein kinase II subunit alpha'
UniProt Gene Name	CSNK2A2

UniProt Synonym Gene Names	CK2A2; CK II alpha'
UniProt Entry Name	CSK22_HUMAN

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/csnk2a2-antibody-western-blot-immunocytochemistry-immunofluorescence-flow-cytometry-elisa/126399>