

Product datasheet

Anti-CSNK2A1 antibody ab10466

★★★★★ 5 Abreviews 8 References 5 Images

Overview

Product name	Anti-CSNK2A1 antibody
Description	Rabbit polyclonal to CSNK2A1
Host species	Rabbit
Specificity	Reacts with alpha subunit.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Xenopus laevis, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Xenopus tropicalis ▲
Immunogen	The immunogen was a synthetic peptide, which represented a portion of human casein kinase 2, alpha 1 polypeptide encoded within exon 3 (LocusLink ID 1457).
Positive control	RIPA extract from HeLa cells treated with CSNK2A1 siRNA or vimentin siRNA.
General notes	This product was previously labelled as CKII alpha

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purity	Immunogen affinity purified
Purification notes	Antibodies were affinity purified using the peptide immobilized on solid support.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab10466** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/1000 - 1/5000. Detects a band of approximately 42 kDa (predicted molecular weight: 45 kDa).
ICC/IF	★★★★★	Use a concentration of 5 µg/ml.

Target

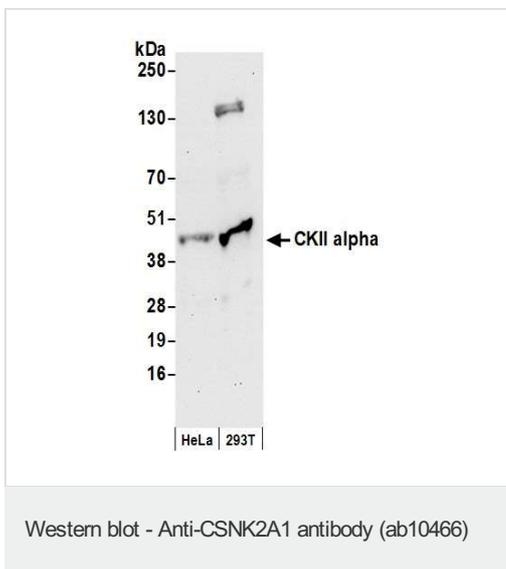
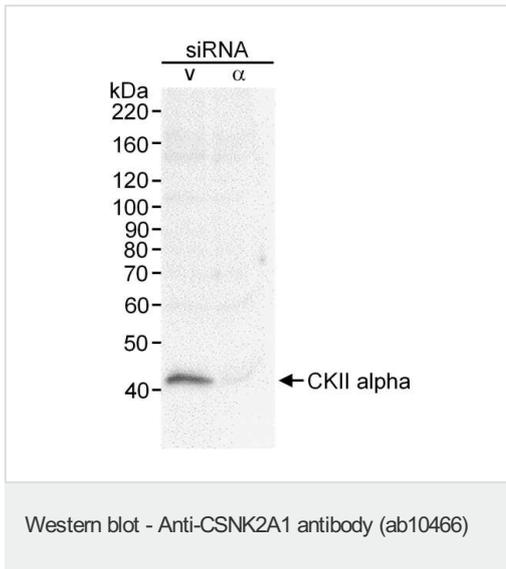
Function

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. The alpha and alpha' chains contain the catalytic site. Participates in Wnt signaling. CK2 phosphorylates 'Ser-392' of p53/TP53 following UV irradiation.

Sequence similarities

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CK2 subfamily. Contains 1 protein kinase domain.

Images





Western blot - Anti-CSNK2A1 antibody (ab10466)

All lanes : Anti-CSNK2A1 antibody (ab10466) at 1/2500 dilution

Lane 1 : Y79 (Human retinoblastoma cell line) Whole Cell Lysate

Lane 2 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

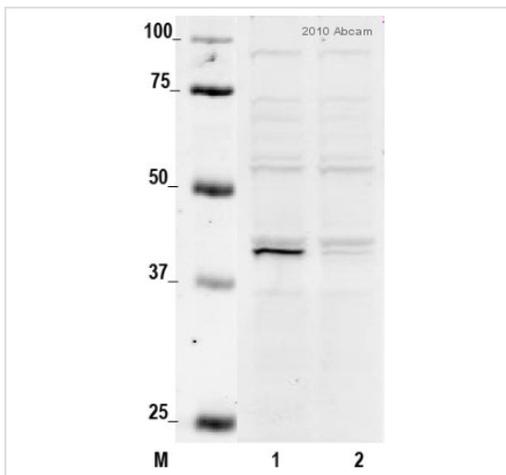
Lane 3 : HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 45 kDa



Western blot - Anti-CSNK2A1 antibody (ab10466)

This image is courtesy of an Abreview submitted by Svetlana Khoronenkova

All lanes : Anti-CSNK2A1 antibody (ab10466) at 1/5000 dilution (LI-COR Blocker (1:1) in PBS + 0.1% Tween for 3 hours)

Lane 1 : Whole cell lysate of HeLa cells

Lane 2 : siRNA to CK2 alpha in HeLa cell lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : An Alexa Fluor®680-conjugated Goat anti-rabbit polyclonal at 1/10000 dilution

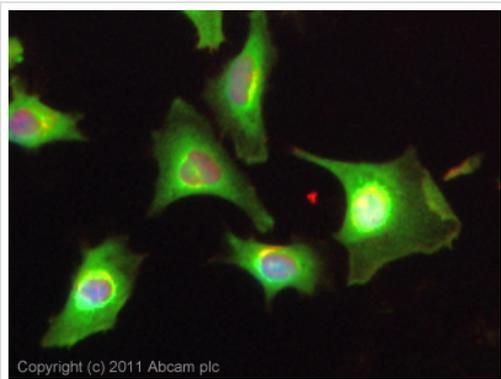
Predicted band size: 45 kDa

Observed band size: 42 kDa

[why is the actual band size different from the predicted?](#)

Blocking Step: 50% LI-COR® Odyssey® Blocking Buffer for 45 minutes at room temperature.

All non-specific bands were very weak.



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Immunocytochemistry/ Immunofluorescence - Anti-CSNK2A1 antibody (ab10466)

ICC/IF image of ab10466 stained HeLa cells. The cells were 4% formaldehyde (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab10466, 5µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#) Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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