

Product datasheet

Anti-CSNK2A1 antibody [EP1963Y] ab76040

KO VALIDATED Recombinant RabMAB

[9 References](#) [5 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-CSNK2A1 antibody [EP1963Y] |
| Description | Rabbit monoclonal [EP1963Y] to CSNK2A1 |
| Host species | Rabbit |
| Tested applications | Suitable for: Flow Cyt (Intra), WB Unsuitable for: ICC/IF or IP |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide within Human CSNK2A1 aa 1-100 (N terminal). The exact sequence is proprietary. Database link: P68400 (Peptide available as ab203372) |
| Positive control | WB: HeLa and HCT116 cell lysate, Mouse and Rat brain lysate. Flow cyto(intra): Jurkat (Human T cell leukemia T lymphocyte) cells |
| General notes | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAB [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAB[®] patents . |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. |
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| Purity | Protein A purified |

| | |
|---------------------|------------|
| Clonality | Monoclonal |
| Clone number | EP1963Y |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76040 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 |
|-------------------------|-----------|--|
| Flow Cyt (Intra) | | 1/20 - 1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| WB | | 1/500 - 1/1000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa). |

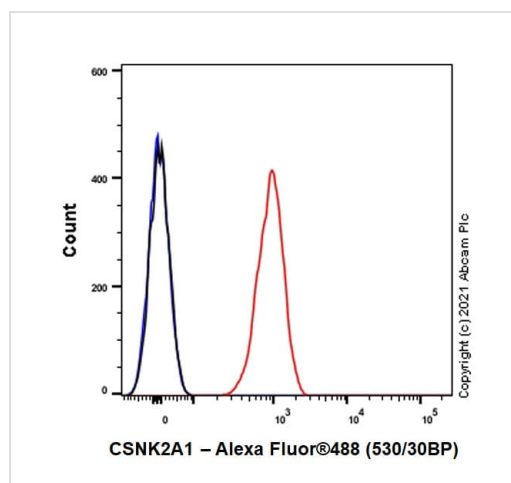
Application notes Is unsuitable for ICC/IF or IP.

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.

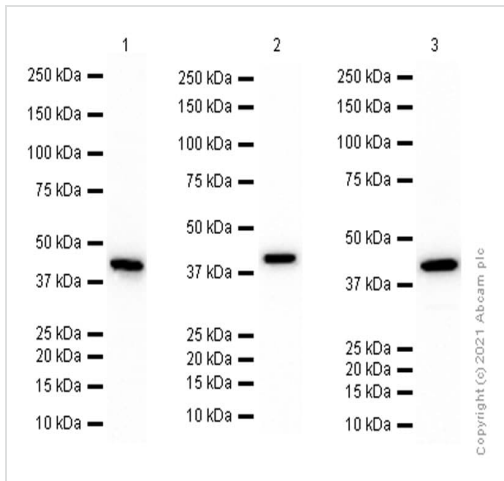
Sequence similarities Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. CK2 subfamily. Contains 1 protein kinase domain.

Images



Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CSNK2A1 with purified ab76040 at 1:20 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as a isotype control. Cell without incubation with primary antibody and secondary antibody (Blue) were used as unlabeled control.

Flow Cytometry (Intracellular) - Anti-CSNK2A1 antibody [EP1963Y] (ab76040)



Western blot - Anti-CSNK2A1 antibody [EP1963Y] (ab76040)

All lanes : Anti-CSNK2A1 antibody [EP1963Y] (ab76040) at 1/1000 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : Mouse brain lysate

Lane 3 : Rat brain lysate

Lysates/proteins at 15 µg per lane.

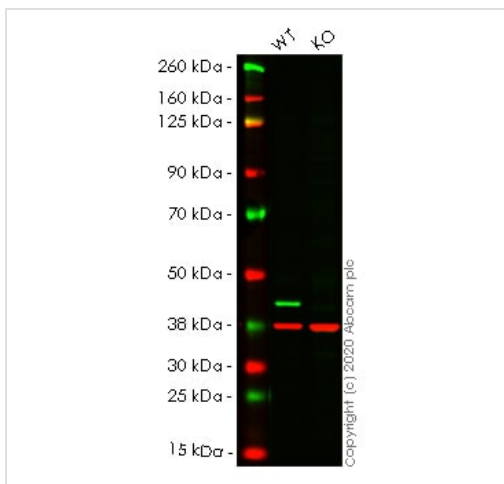
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-CSNK2A1 antibody [EP1963Y] (ab76040)

All lanes : Anti-CSNK2A1 antibody [EP1963Y] (ab76040) at 1/1000 dilution

Lane 1 : Wild-type HCT116 cell lysate

Lane 2 : CSNK2A1 knockout HCT116 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

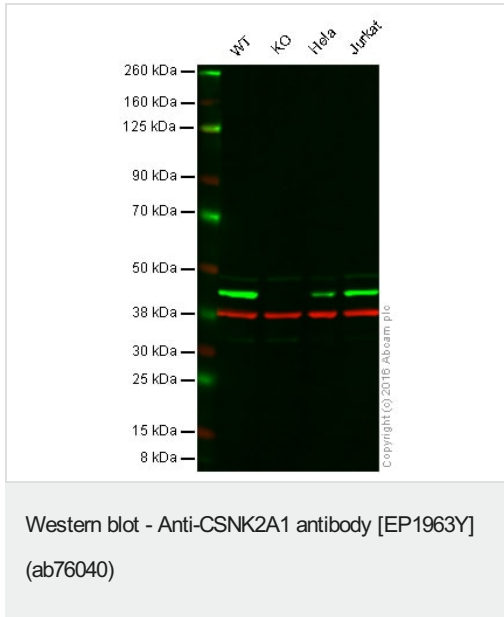
Predicted band size: 45 kDa

Observed band size: 45 kDa

Lanes 1-2: Merged signal (red and green). Green - ab76040 observed at 45 kDa. Red - loading control [ab8245](#) observed at 37 kDa.

ab76040 Anti-CSNK2A1 antibody [EP1963Y] was shown to specifically react with CSNK2A1 in wild-type HCT116 cells. Loss of signal was observed when knockout cell line [ab266864](#) (knockout cell lysate [ab257401](#)) was used. Wild-type and CSNK2A1 knockout samples were subjected to SDS-PAGE. ab76040 and Anti-

GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-CSNK2A1 antibody [EP1963Y] (ab76040) at 1/500 dilution

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : CSNK2A1 knockout HAP1 cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 45 kDa

Lanes 1 -4: Merged signal (red and green). Green – ab76040 observed at 45 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

ab76040 was shown to specifically react with CSNK2A1 when CCSNK2A1 knockout samples were used. Wild-type and CSNK2A1 knockout samples were subjected to SDS-PAGE. ab76040 and [ab8245](#) (loading control to GAPDH) were diluted at 1/500 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed ([ab216776](#)) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-CSNK2A1 antibody [EP1963Y] (ab76040)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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