abcam

Product datasheet

Anti-Casein Kinase 1 alpha antibody [EPR19824] - BSA and Azide free ab223144





3 Images

Overview

Product name Anti-Casein Kinase 1 alpha antibody [EPR19824] - BSA and Azide free

Description Rabbit monoclonal [EPR19824] to Casein Kinase 1 alpha - BSA and Azide free

Host species Rabbit

Suitable for: WB, IP **Tested applications**

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

WB: HEK-293T, HeLa, MCF7 and NIH/3T3 whole cell lysates; Human fetal brain, fetal kidney, fetal Positive control

spleen and skin lysates; Mouse and rat brain, kidney, spleen and skin lysates. IP: Human skin

lysate.

General notes ab223144 is the carrier-free version of ab206652.

> Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for

increased conjugation efficiency.

This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cellbased assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.

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. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.2

Constituent: PBS

Carrier free Yes

Purity Protein A purified

ClonalityMonoclonalClone numberEPR19824

Isotype IgG

Applications

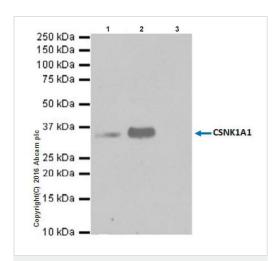
The Abpromise guarantee Our Abpromise guarantee covers the use of ab223144 in the following tested applications.

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

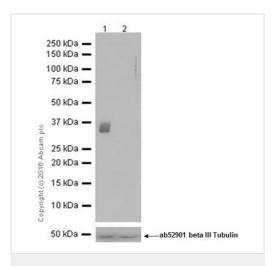
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 36 kDa (predicted molecular weight: 39 kDa).
IP		Use at an assay dependent concentration.

Casein kinases are operationally defined by their preferential utilization of acidic proteins such as caseins as substrates. It can phosphorylate a large number of proteins. Participates in Wnt signaling. Phosphorylates CTNNB1 at 'Ser-45'. May play a role in segregating chromosomes during mitosis.
Belongs to the protein kinase superfamily. CK1 Ser/Thr protein kinase family. Casein kinase I subfamily. Contains 1 protein kinase domain.
Cytoplasm. Cytoplasm > cytoskeleton > centrosome. Chromosome > centromere > kinetochore. Nucleus speckle. Localizes to the centrosome in interphase cells, and to kinetochore fibers during mitosis.

Images



Immunoprecipitation - Anti-Casein Kinase 1 alpha antibody [EPR19824] - BSA and Azide free (ab223144)



Western blot - Anti-Casein Kinase 1 alpha antibody [EPR19824] - BSA and Azide free (ab223144)

Casein Kinase 1 alpha was immunoprecipitated from 0.35 mg of Human skin lysate with <u>ab206652</u> at 1/30 dilution. Western blot was performed from the immunoprecipitate using <u>ab206652</u> at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (<u>ab131366</u>), was used for detection at 1/1000 dilution.

Lane 1: Human skin lysate, 10µg (Input).

Lane 2: ab206652 IP in Human skin lysate.

Lane 3: Rabbit monoclonal $\lg G \left(\underline{ab172730} \right)$ instead of $\underline{ab206652}$ in Human skin lysate.

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

Exposure time: 10 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab206652).

All lanes : Anti-Casein Kinase 1 alpha antibody [EPR19824] (ab206652) at 1/1000 dilution

Lane 1 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lane 2 : HEK-293T Casein Kinase 1 alpha KO whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/10000 dilution

Predicted band size: 39 kDa Observed band size: 36 kDa

Exposure time: 1 second

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab206652).

Blocking/Dilution buffer: 5% NFDM/TBST.

The lysates were kindly provided by our collaborator Dr. Yi Rao, Peking University.



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

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