

Product datasheet

Anti-Chk1 antibody [E250] - BSA and Azide free ab239821

Recombinant RabMAb

6 Images

Overview

Product name	Anti-Chk1 antibody [E250] - BSA and Azide free
Description	Rabbit monoclonal [E250] to Chk1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, Flow Cyt, ICC/IF, WB Unsuitable for: IHC
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Chk1 aa 1-100 (N terminal). The exact sequence is proprietary.
Positive control	IP: K-562 whole cell lysate. ICC: HeLa cells. Flow Cyt: K-562 cells. WB: K-562, HeLa, NIH/3T3, MEF and PC-12 whole cell lysates
General notes	Ab239821 is the carrier-free version of ab32531 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab239821 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- 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](#).

We are constantly working hard to ensure we provide our customers with best in class

antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E250
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab239821** in the following tested applications.

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

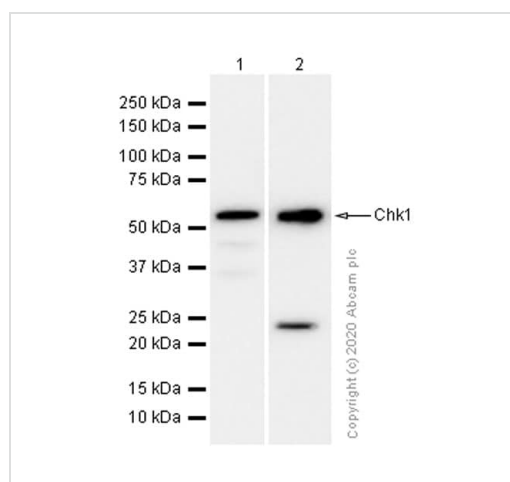
Application	Abreviews	Notes
IP		Use at an assay dependent concentration.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).

Application notes Is unsuitable for IHC.

Target

Images



Western blot - Anti-Chk1 antibody [E250] - BSA and Azide free (ab239821)

All lanes : Anti-Chk1 antibody [E250] ([ab32531](#)) at 1/10000 dilution (Purified)

Lane 1 : MEF (Mouse embryonic fibroblast (immortalized)) whole cell lysate

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

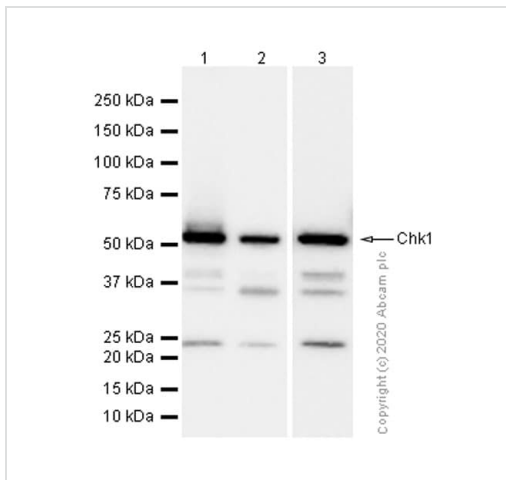
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 54 kDa

Observed band size: 54 kDa

This data was developed using [ab32531](#), the same antibody clone in a different buffer formulation.

We are unsure how to define the extra bands.



Western blot - Anti-Chk1 antibody [E250] - BSA and Azide free (ab239821)

All lanes : Anti-Chk1 antibody [E250] ([ab32531](#)) at 1/1000 dilution (Purified)

Lane 1 : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

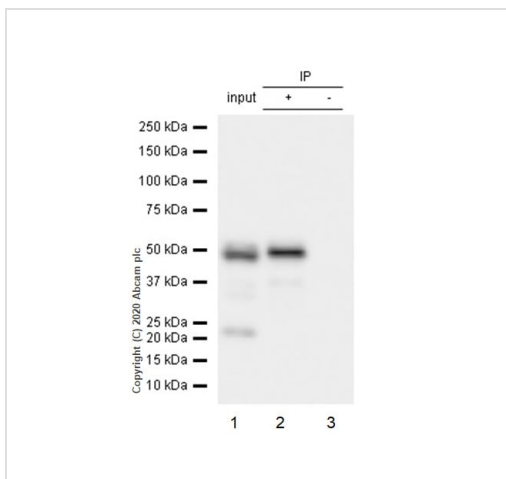
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/20000 dilution

Predicted band size: 54 kDa

Observed band size: 54 kDa



Immunoprecipitation - Anti-Chk1 antibody [E250] - BSA and Azide free (ab239821)

This data was developed using [ab32531](#), the same antibody clone in a different buffer formulation.

Purified [ab32531](#) at 1/20 dilution (1µg) immunoprecipitating Chk1 in K-562 whole cell lysate.

Lane 1 (input): K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10µg

Lane 2 (+): [ab32531](#) + K-562 whole cell lysate.

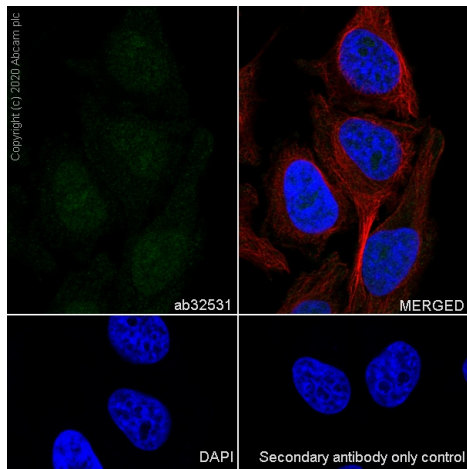
Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of [ab32531](#) in K-562 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDN/TBST.

Diluting buffer and concentration: 5% NFDN/TBST.

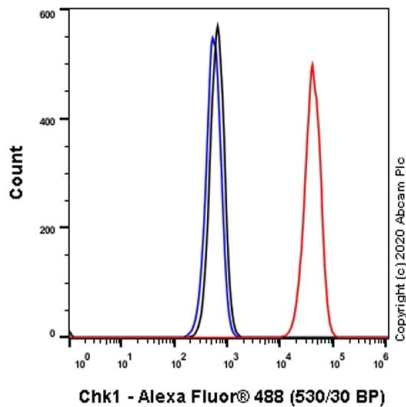
Observed band size: 54 kDa



Immunocytochemistry - Anti-Chk1 antibody [E250] - BSA and Azide free (ab239821)

This data was developed using [ab32531](#), the same antibody clone in a different buffer formulation.

Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Chk1 with purified [ab32531](#) at 1/50 dilution (5.06 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry - Anti-Chk1 antibody [E250] - BSA and Azide free (ab239821)

This data was developed using [ab32531](#), the same antibody clone in a different buffer formulation.

Flow Cytometry analysis of K-562 (Human chronic myelogenous leukemia lymphoblast) cells labeling Chk1 with purified [ab32531](#) at 1/30 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](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

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-Chk1 antibody [E250] - BSA and Azide free
(ab239821)

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

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