


Product datasheet

Anti-PKN2 antibody [EPR5490] - BSA and Azide free ab248857

KO VALIDATED Recombinant RabMAb

3 Images

Overview

Product name	Anti-PKN2 antibody [EPR5490] - BSA and Azide free
Description	Rabbit monoclonal [EPR5490] to PKN2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB Unsuitable for: Flow Cyt, IHC-P or IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HCT116, HEK-293T, Jurkat, HeLa, and HepG2 (ab7900) cell lysates. ICC/IF: HeLa cells.
General notes	<p>ab248857 is the carrier-free version of ab138514.</p> <p>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.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit</p>

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	Affinity purified
Clonality	Monoclonal
Clone number	EPR5490
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab248857 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

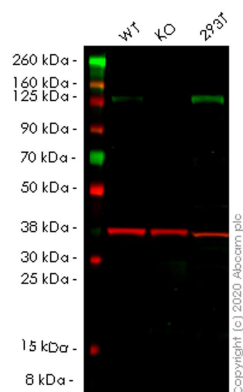
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 112 kDa (predicted molecular weight: 112 kDa).

Application notes Is unsuitable for Flow Cyt, IHC-P or IP.

Target

Function	Exhibits a preference for highly basic protein substrates.
Sequence similarities	Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 C2 domain. Contains 1 protein kinase domain. Contains 3 REM (Hr1) repeats.
Domain	The C1 domain does not bind the diacylglycerol (DAG).
Post-translational modifications	Autophosphorylated. Activated by limited proteolysis with trypsin.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-PKN2 antibody [EPR5490] - BSA and Azide free (ab248857)

All lanes : Anti-PKN2 antibody [EPR5490] ([ab138514](#)) at 1/1000 dilution

Lane 1 : Wild-type HCT 116 (Human colorectal carcinoma cell line) whole cell lysate

Lane 2 : PKN2 knockout HCT 116 (Human colorectal carcinoma cell line) whole cell lysate

Lane 3 : HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

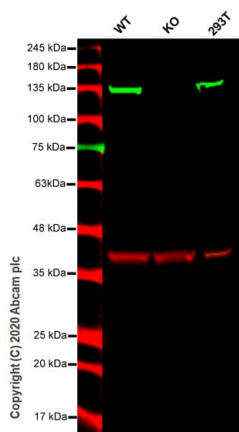
Predicted band size: 112 kDa

Observed band size: 125 kDa

This data was developed using [ab138514](#), the same antibody clone in a different buffer formulation.

Lanes 1-3: Merged signal (red and green). Green - [ab138514](#) observed at 125 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

[ab138514](#) Anti-PKN2 antibody [EPR5490] ([ab138514](#)) was shown to specifically react with PKN2 in wild-type HCT cells. Loss of signal was observed when knockout cell line [ab266894](#) (knockout cell lysate [ab258588](#)) was used. Wild-type and PKN2 knockout samples were subjected to SDS-PAGE. [ab138514](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution 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.



Western blot - Anti-PKN2 antibody [EPR5490] - BSA and Azide free (ab248857)

All lanes : Anti-PKN2 antibody [EPR5490] ([ab138514](#)) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : PKN2 knockout HeLa cell lysate

Lane 3 : HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 112 kDa

Observed band size: 112 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab138514](#)).

Lanes 1-3: Merged signal (red and green). Green - [ab138514](#) observed at 112 kDa. Red - loading control, [ab8245](#) observed at 37 kDa.

[ab138514](#) Anti-PKN2 antibody [EPR5490] was shown to specifically react with PKN2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab264691](#) (knockout cell lysate [ab258587](#)) was used. Wild-type and PKN2 knockout samples were subjected to SDS-PAGE. [ab138514](#) and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated overnight at 4°C at 1 in 1000 dilution 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 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-PKN2 antibody [EPR5490] - BSA and Azide free (ab248857)

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

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