


Product datasheet

Anti-Aconitase 2 antibody [EPR8283(B)] - BSA and Azide free ab248303

KO VALIDATED Recombinant RabMAb

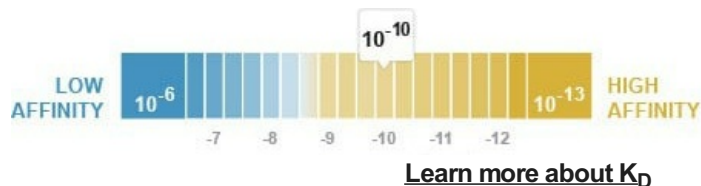
5 Images

Overview

Product name	Anti-Aconitase 2 antibody [EPR8283(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR8283(B)] to Aconitase 2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: IP
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab248303 is the carrier-free version of ab129105.</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 monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 2.60 \times 10^{-10} \text{ M}$



Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8283(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab248303 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

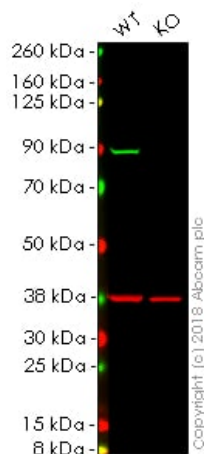
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 85 kDa (predicted molecular weight: 85 kDa).

Application notes Is unsuitable for IP.

Target

Function	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.
Pathway	Carbohydrate metabolism; tricarboxylic acid cycle; isocitrate from oxaloacetate: step 2/2.
Sequence similarities	Belongs to the aconitase/IPM isomerase family.
Cellular localization	Mitochondrion.

Images



Western blot - Anti-Aconitase 2 antibody
[EPR8283(B)] - BSA and Azide free (ab248303)

All lanes : Anti-Aconitase 2 antibody [EPR8283(B)] ([ab129105](#)) at 1/1000 dilution

All lanes : Wild-type HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 85 kDa

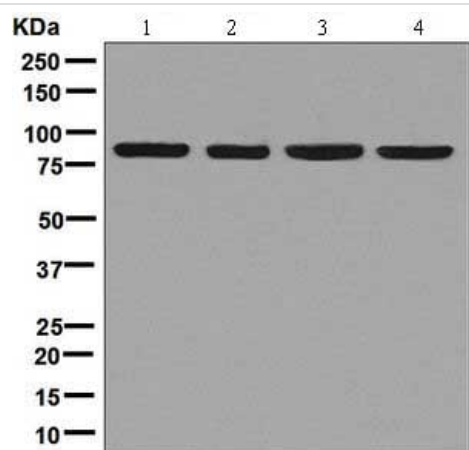
Observed band size: 85 kDa

This data was developed using [ab129105](#), the same antibody clone in a different buffer formulation.

Lanes 1 - 2: Merged signal (red and green). Green - [ab129105](#) observed at 85 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

[ab129105](#) was shown to specifically react with Aconitase 2 in wild-type HAP1 cells as signal was lost in Hela knockout cells. Wild-type and Hela knockout samples were subjected to SDS-PAGE.

[ab129105](#) and [ab9484](#) (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed [ab216773](#) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed [ab216776](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Aconitase 2 antibody
[EPR8283(B)] - BSA and Azide free (ab248303)

All lanes : Anti-Aconitase 2 antibody [EPR8283(B)] ([ab129105](#)) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : K562 cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : 293T cell lysate

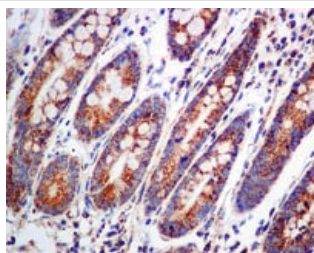
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

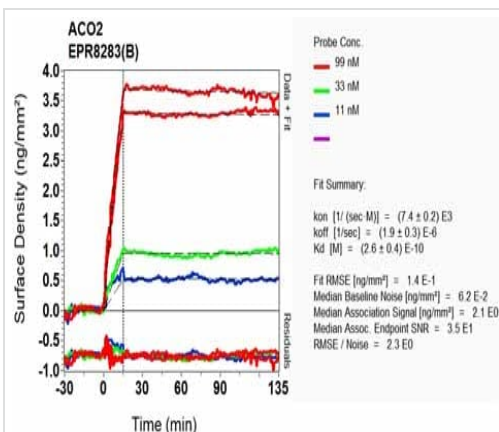
Predicted band size: 85 kDa

This data was developed using **ab129105**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aconitase 2 antibody [EPR8283(B)] - BSA and Azide free (ab248303)

This data was developed using **ab129105**, the same antibody clone in a different buffer formulation. **ab129105**, at 1/100 dilution, staining Aconitase 2 in Paraffin-embedded Human kidney tissue by immunohistochemistry. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Ox-LD Scanning - Anti-Aconitase 2 antibody [EPR8283(B)] - BSA and Azide free (ab248303)

This data was developed using **ab129105**, the same antibody clone in a different buffer formulation. Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-Aconitase 2 antibody [EPR8283(B)] - BSA and Azide free (ab248303)

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

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