

Product datasheet

Anti-Citrulline antibody ab100932

★★★★★ 2 Abreviews 10 References 3 Images

Overview

Product name	Anti-Citrulline antibody
Description	Rabbit polyclonal to Citrulline
Host species	Rabbit
Specificity	ab100932 reacts specifically with intrapeptidic citrulline independently of the amino acid sequence. It does not react with free citrulline, ornithine or arginine. Citrulline is an un-natural amino-acid and its expression is very low. Factors limiting the detection are the amount of endogenous citrulline within a protein and the accessibility of the antibody to these sites.
Tested applications	Suitable for: ELISA, ICC Unsuitable for: WB
Species reactivity	Reacts with: Species independent
Immunogen	Citrulline coupled to KLH via Glutaraldehyde
Positive control	Hypercitrullinated Histones induced in HL60 cells by DMSO +calcium +calcium ionophore A23187
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>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.</p>

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.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab100932** 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
ELISA		Use at an assay dependent concentration.
ICC	★★★★☆	Use at an assay dependent concentration.

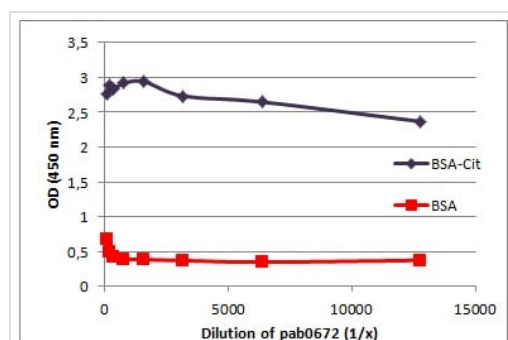
Application notes Is unsuitable for WB.

Target

Relevance

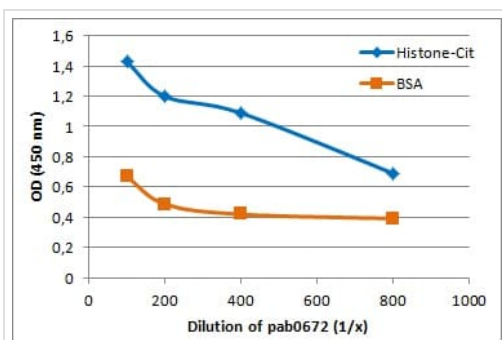
The amino acid Citrulline is required to detoxify the liver from ammonia, which is a waste product of the body from oxidation. Citrulline promotes energy and assists with the immune system. This unusual amino acid is formed in the urea cycle by the addition of carbon dioxide and ammonia to ornithine. It is then combined with aspartic acid to form arginosuccinic acid, which later is metabolized into the amino acid arginine.

Images



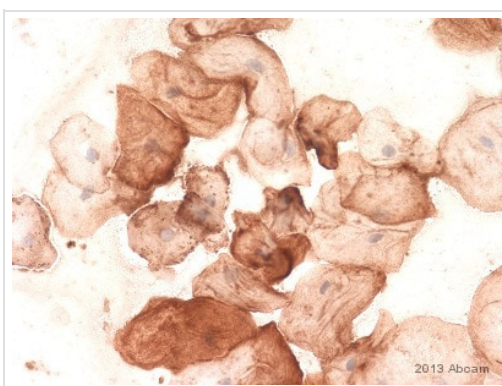
ELISA - Anti-Citrulline antibody (ab100932)

ELISA data showing the high immuno-reactivity of ab100932 against citrulline due to the high amounts of citrulline conjugated to BSA.



ELISA - Anti-Citrulline antibody (ab100932)

ELISA data demonstrating the specificity of ab100932 to citrulline naturally present in histones (endogenous citrulline).



Immunocytochemistry - Anti-Citrulline antibody (ab100932)

This image is courtesy of an anonymous Abreview

Immunocytochemical analysis of Human buccal mucosal cells, staining Citrulline with ab100932.

Cells were fixed with acetone followed by 2% glutaraldehyde, permeabilized with 0.1% Triton X-100 and blocked with 3% BSA for 20 minutes at 22°C. Samples were incubated with primary antibody (1/200 in PBS) for 15 hours at 4°C. An undiluted biotinylated anti-rabbit polyclonal IgG was used as the secondary antibody.

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

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