

Product datasheet

Anti-Arg2 antibody [EPR22626-51] ab228963

Recombinant RabMAb

6 Images

Overview

Product name	Anti-Arg2 antibody [EPR22626-51]
Description	Rabbit monoclonal [EPR22626-51] to Arg2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IP Unsuitable for: IHC-Fr
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Synthetic peptide within Mouse Arg2 aa 50-350. The exact sequence is proprietary. Database link: O08691
Positive control	WB: Mouse and rat small intestine and kidney lysate. IHC-P: Mouse small intestine tissue; rat kidney tissue. IP: Rat kidney lysate.
General notes	<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> <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>

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 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22626-51
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228963** 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		1/1000. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa).
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.

Application notes Is unsuitable for IHC-Fr.

Target

Function May play a role in the regulation of extra-urea cycle arginine metabolism and also in down-regulation of nitric oxide synthesis. Extrahepatic arginase functions to regulate L-arginine bioavailability to NO synthase. Since NO synthase is found in the penile corpus cavernosum smooth muscle, the clitoral corpus cavernosum and the vagina, arginase II plays a role in both male and female sexual arousal. It is therefore a potential target for the treatment of male and female sexual arousal disorders.

Tissue specificity Expressed most strongly in kidney and prostate, much less strongly in the brain, skeletal muscle, placenta, lung, mammary gland, macrophage, uterus, testis and gut, but apparently not in the liver,

heart and pancreas.

Pathway

Nitrogen metabolism; urea cycle; L-ornithine and urea from L-arginine: step 1/1.

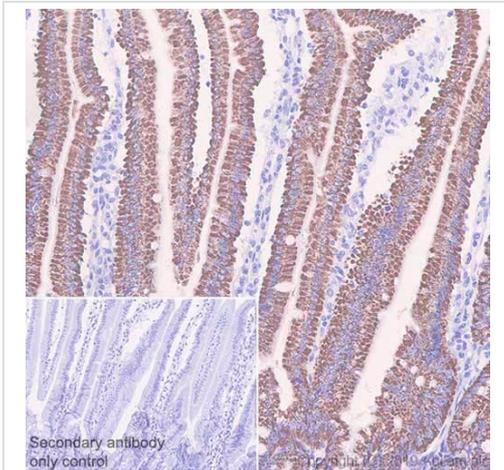
Sequence similarities

Belongs to the arginase family.

Cellular localization

Mitochondrion.

Images

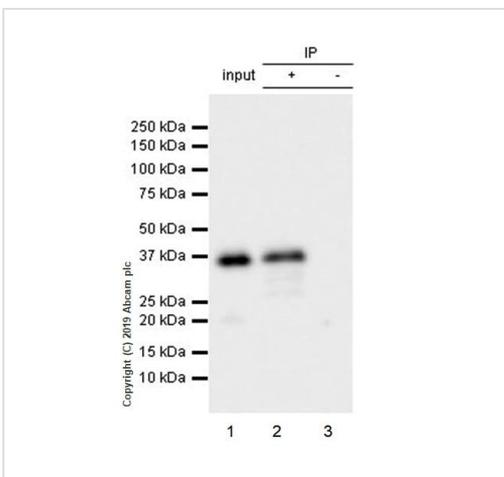


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Arg2 antibody [EPR22626-51] (ab228963)

Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue labeling Arg2 with ab228963 at 1/500 dilution, followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on the mouse small intestine (PMID: 19000307) is observed. The section was incubated with ab228963 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Immunoprecipitation - Anti-Arg2 antibody [EPR22626-51] (ab228963)

Arg2 was immunoprecipitated from 0.35 mg rat kidney lysate with ab228963 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab228963 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used at 1/1000 dilution.

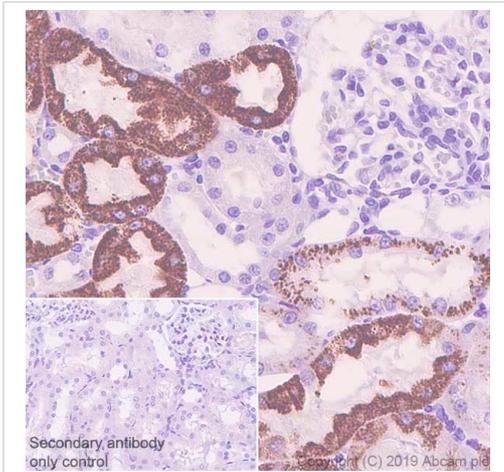
Lane 1: Rat kidney lysate 10 μ g (Input).

Lane 2: ab228963 IP in rat kidney lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab228963 in rat kidney lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 5 seconds.

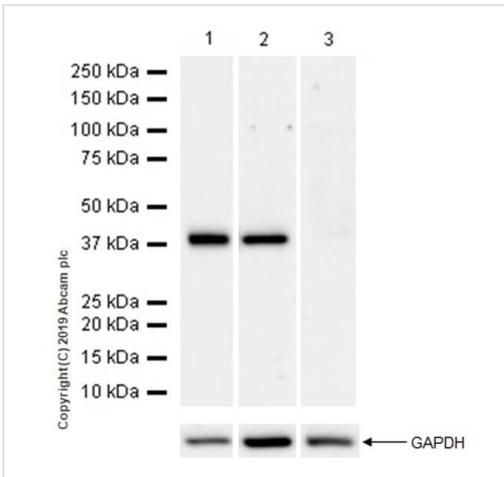


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Arg2 antibody [EPR22626-51] (ab228963)

Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling Arg2 with ab228963 at 1/500 dilution, followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on the tubules in the rat kidney (PMID: 8954792) is observed. The section was incubated with ab228963 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.



Western blot - Anti-Arg2 antibody [EPR22626-51] (ab228963)

All lanes : Anti-Arg2 antibody [EPR22626-51] (ab228963) at 1/1000 dilution

Lane 1 : Mouse small intestine lysate

Lane 2 : Mouse kidney lysate

Lane 3 : Mouse liver lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

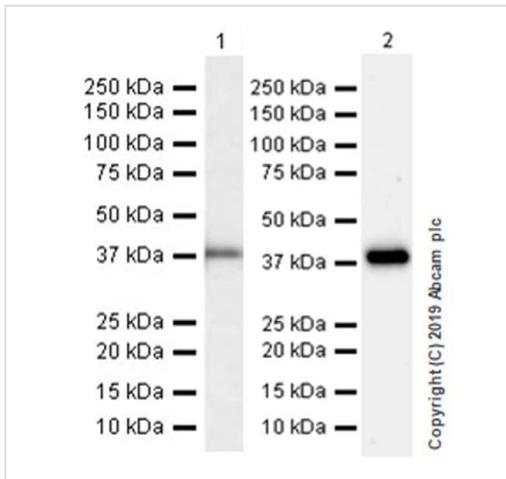
Predicted band size: 39 kDa

Observed band size: 39 kDa

Negative control: Mouse liver (PMID: 21975054).

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure times: Lane 1: 10 seconds; Lanes 2-3: 3 minutes.



Western blot - Anti-Arg2 antibody [EPR22626-51] (ab228963)

All lanes : Anti-Arg2 antibody [EPR22626-51] (ab228963) at 1/1000 dilution

Lane 1 : Rat small intestine lysate

Lane 2 : Rat kidney lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 39 kDa

Observed band size: 39 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

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-Arg2 antibody [EPR22626-51] (ab228963)

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

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