


Product datasheet

Anti-Liver Arginase antibody ab96183

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Overview

Product name	Anti-Liver Arginase antibody
Description	Rabbit polyclonal to Liver Arginase
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, ELISA, IHC-Fr, IP, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Rabbit, Cow, Pig 
Immunogen	Recombinant fragment corresponding to Human Liver Arginase aa 1-292. Database link: P05089
Positive control	WB: Raji whole cell lysate. Rat liver tissue extract. Mouse liver extract. IHC-P: Cal27 xenograft. Mouse liver tissue. ICC/IF: HeLa cells. IHC-Fr: Mouse hippocampus tissue. ELISA: HEK-293T whole cell extracts. Flow Cyt: HepG2 cell. IP: HepG2 cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab96183 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		1/500 - 1/3000. Predicted molecular weight: 35 kDa.
IHC-P	★☆☆☆☆ (1)	1/100 - 1/1000. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. For antigen retrieval, either 10mM Citrate buffer(PH6.0) or Tris-EDTA buffer (PH8.0) will be effective.
ICC/IF		1/100 - 1/1000.
ELISA		1/1000 - 1/10000.
IHC-Fr		1/100 - 1/1000.
IP		1/100 - 1/1000.
Flow Cyt		1/50 - 1/200.

Target

Pathway

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

Involvement in disease

Defects in ARG1 are the cause of argininemia (ARGIN) [MIM:207800]; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal fluid, and periodic hyperammonemia occurs. Clinical manifestations include developmental delay, seizures, mental retardation, hypotonia, ataxia, progressive spastic quadriplegia.

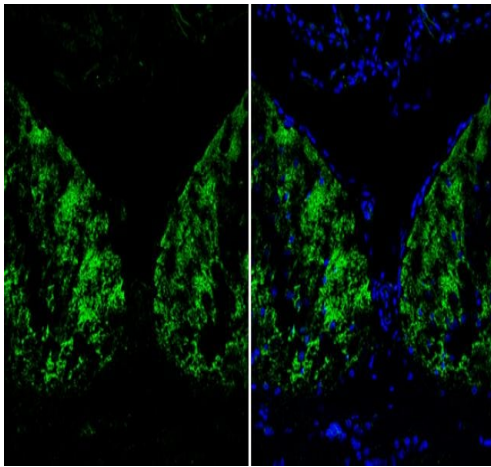
Sequence similarities

Belongs to the arginase family.

Cellular localization

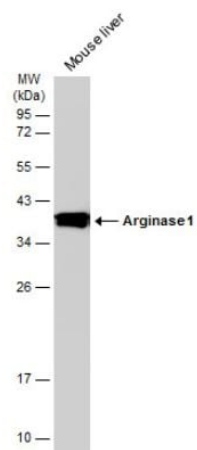
Cytoplasm.

Images



Immunohistochemistry (Frozen sections) - Anti-Liver Arginase antibody (ab96183)

Frozen sections of mouse hippocampus tissue stained for Arginase 1 (green) using ab96183 at 1/250 dilution in immunohistochemical analysis. Counterstained with Fluoroshield with DAPI (blue).

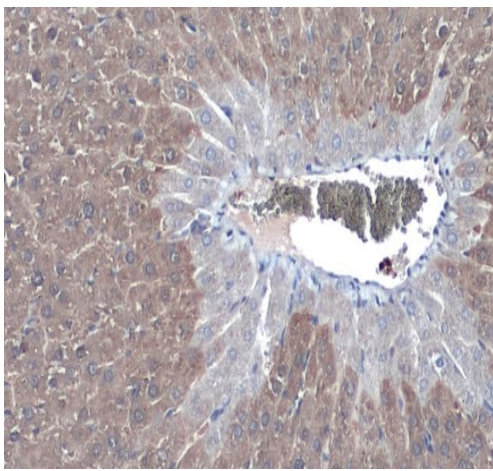


Western blot - Anti-Liver Arginase antibody (ab96183)

Anti-Liver Arginase antibody (ab96183) at 1/10000 dilution + Mouse liver extract at 50 µg

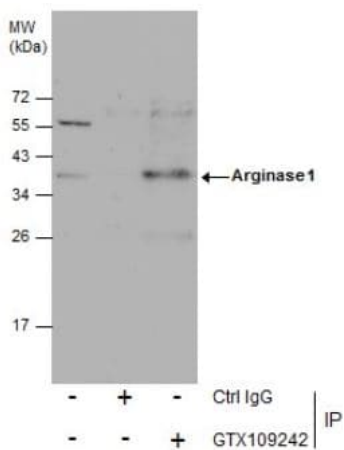
Predicted band size: 35 kDa

Separated by 12% SDS-PAGE.



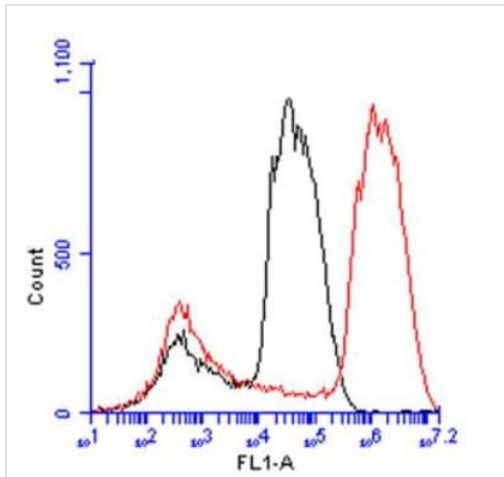
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Liver Arginase antibody (ab96183)

Paraffin embedded mouse liver tissue stained for Arginase 1 using ab96183 at 1/500 dilution in immunohistochemical analysis.



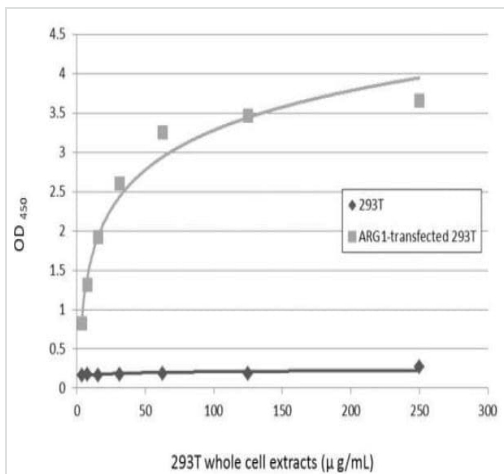
Immunoprecipitation - Anti-Liver Arginase antibody (ab96183)

Arginase 1 was immunoprecipitated from 5μ of HepG2 whole cell lysate with ab96183. Western blot was performed from the immunoprecipitate using ab96183 at 1/600 dilution. EasyBlot anti-Rabbit IgG, was used as secondary antibody.



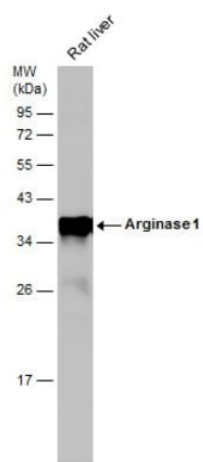
Flow cytometric analysis of HepG2 cell line labeling ARG1 with ab96183 at 1/50 dilution (red) compared with Isotype Control (black) and an unlabelled control. Dylight 488-conjugated was used as secondary antibody.

Flow Cytometry - Anti-Liver Arginase antibody (ab96183)



ELISA analysis of HEK-293T whole cell extracts using ab96183 as a detection antibody with concentration of 1 μg/mL.

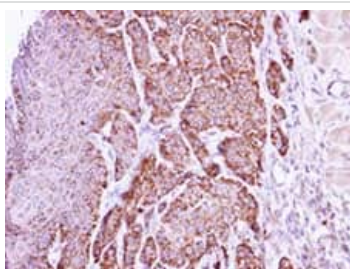
ELISA - Anti-Liver Arginase antibody (ab96183)



Western blot - Anti-Liver Arginase antibody
(ab96183)

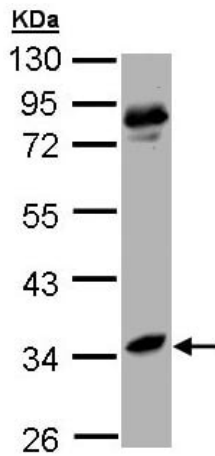
Anti-Liver Arginase antibody (ab96183) at 1/10000 dilution + Rat liver tissue extract at 50 µg

Predicted band size: 35 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-liver Arginase antibody
(ab96183)

ab96183, at 1/500 dilution, staining liver Arginase in paraffin-embedded Cal27 xenograft by Immunohistochemistry.

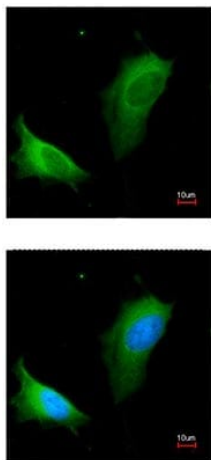


Western blot - Anti-liver Arginase antibody (ab96183)

Anti-Liver Arginase antibody (ab96183) at 1/3000 dilution + Raji whole cell lysate at 30 µg

Predicted band size: 35 kDa

10% SDS-PAGE



Immunocytochemistry/ Immunofluorescence - Anti-liver Arginase antibody (ab96183)

ab96183, at 1/200 dilution, staining paraformaldehyde-fixed HeLa cells by Immunofluorescence. Lower image is merged with DNA probe.

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