abcam

ab96183

Anti-Liver Arginase antibody

Anti-Liver Arginase antibody (ab96183) is a rabbit polyclonal antibody detecting Liver Arginase in **Western Blot, Flow Cytometry, IP, IHC-P, IHC-Fr, ICC/IF, ELISA**. Suitable for **Human, Mouse, Rat**.

- Over 10 publications
- Trusted since 2010

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7 Preservative: 0.025% Proclin 300 Constituents: PBS, 20% Glycerol (glycerin, glycerine)
Form	Liquid
Clonality	Polyclonal
Immunogen	Recombinant Fragment Protein within Human ARG1 aa 1-300. The exact immunogen used to generate this antibody is proprietary information. Database link P05089
Purification technique	Affinity purification Immunogen
Concentration	1.39 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse

Dilution info	1/100 - 1/1000
Notes	For antigen retrieval, either 10mM Citrate buffer(PH6.0) or Tris-EDTA buffer (PH8.0) will be effective. Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Species	Human
Dilution info	1/100 - 1/1000
Notes	For antigen retrieval, either 10mM Citrate buffer(PH6.0) or Tris-EDTA buffer (PH8.0) will be effective. Perform heat-mediated antigen retrieval before commencing with IHC staining protocol.

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	1/100 - 1/1000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.

Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/50 - 1/200
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

ELISA

Tested

Species	Human
Dilution info	1/1000 - 1/10000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/500 - 1/3000
Notes	-

Species	Rat
Dilution info	1/500 - 1/3000
Notes	-

Species	Human
Dilution info	1/500 - 1/3000
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/1000
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100 - 1/1000
Notes	-

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Rabbit, Cow
Dilution info	-
Notes	-

Target data

See full target information ARG1

Function	Key element of the urea cycle converting L-arginine to urea and L-ornithine, which is further metabolized into metabolites proline and polyamides that drive collagen synthesis and bioenergetic pathways critical for cell proliferation, respectively; the urea cycle takes place primarily in the liver and, to a lesser extent, in the kidneys. Functions in L-arginine homeostasis in nonhepatic tissues characterized by the competition between nitric oxide synthase (NOS) and arginase for the available intracellular substrate arginine. Arginine metabolism is a critical regulator of innate and adaptive immune responses. Involved in an antimicrobial effector pathway in polymorphonuclear granulocytes (PMN). Upon PMN cell death is liberated from the phagolysosome and depletes arginine in the microenvironment leading to suppressed T cell and natural killer (NK) cell proliferation and cytokine secretion (PubMed:15546957, PubMed:16709924, PubMed:19380772). In group 2 innate lymphoid cells (ILC2s) promotes acute type 2 inflammation in the lung and is involved in optimal ILC2 proliferation but not survival (By similarity). In humans, the immunological role in the monocytic/macrophage/dendritic cell (DC) lineage is unsure.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	Up to 12 months
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-Liver Arginase antibody (ab96183) is a rabbit polyclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF), ELISA in Human, Mouse, Rat samples.

What is the molecular weight of Liver Arginase?
Anti-Liver Arginase (ab96183) specifically detects a band for Liver Arginase (UniProt: P05089) at a molecular weight of 35kDa.

Trusted by the scientific community
Anti-Liver Arginase (ab96183) was first used in a scientific publication in 2010 and has been cited over 10 times in peer-reviewed journals.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

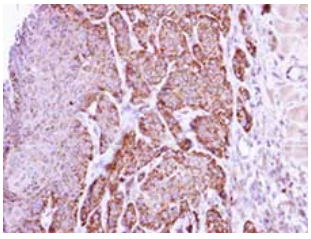
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

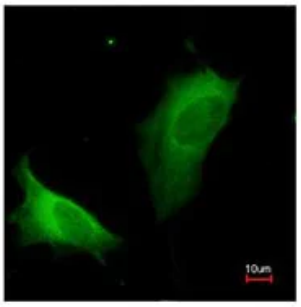
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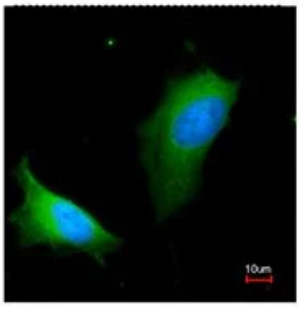


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Liver Arginase antibody (ab96183)

Liver Arginase Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Liver Arginase antibody

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

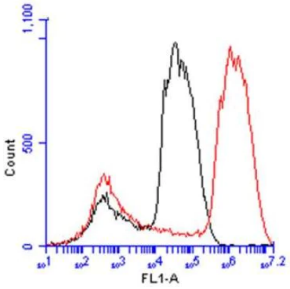




Immunocytochemistry/ Immunofluorescence - Anti-Liver Arginase antibody (ab96183)

Liver Arginase Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Liver Arginase antibody

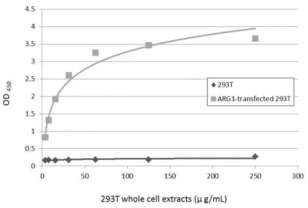
ab96183, at 1/200 dilution, staining paraformaldehyde-fixed HeLa cells by Immunofluorescence. Lower image is merged with DNA probe.



Flow Cytometry - Anti-Liver Arginase antibody (ab96183)

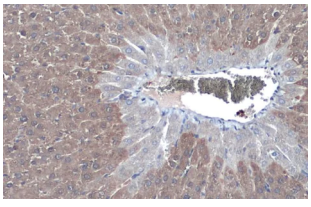
Liver Arginase Flow Cytometry staining using rabbit Anti-Liver Arginase antibody

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.



ELISA - Anti-Liver Arginase antibody (ab96183)

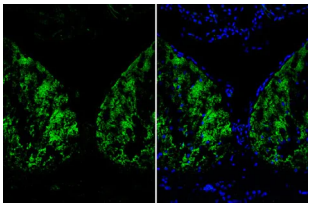
ELISA analysis of HEK-293T whole cell extracts using ab96183 as a detection antibody with concentration of 1 µg/mL.



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

Liver Arginase Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Liver Arginase antibody

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



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

Liver Arginase Immunohistochemistry (Frozen sections) staining using rabbit Anti-Liver Arginase antibody

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.