

Anti-liver Arginase Antibody
Catalog # ABO11090**Specification**

Anti-liver Arginase Antibody - Product Information

Application	WB
Primary Accession	P07824
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Arginase-1(ARG1) detection. Tested with WB in Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-liver Arginase Antibody - Additional Information

Gene ID 29221

Other Names

Arginase-1, 3.5.3.1, Liver-type arginase, Type I arginase, Arg1

Calculated MW

34973 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Rat, Mouse

Subcellular Localization

Cytoplasm.

Tissue Specificity

Detected in liver (at protein level). .

Protein Name

Arginase-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of rat liver Arginase(307-323aa KREGNHKPETDYLKPPK), different from the related mouse sequence by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-liver Arginase Antibody - Protein Information**Name** 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.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P05089}. Cytoplasmic granule {ECO:0000250|UniProtKB:P05089}

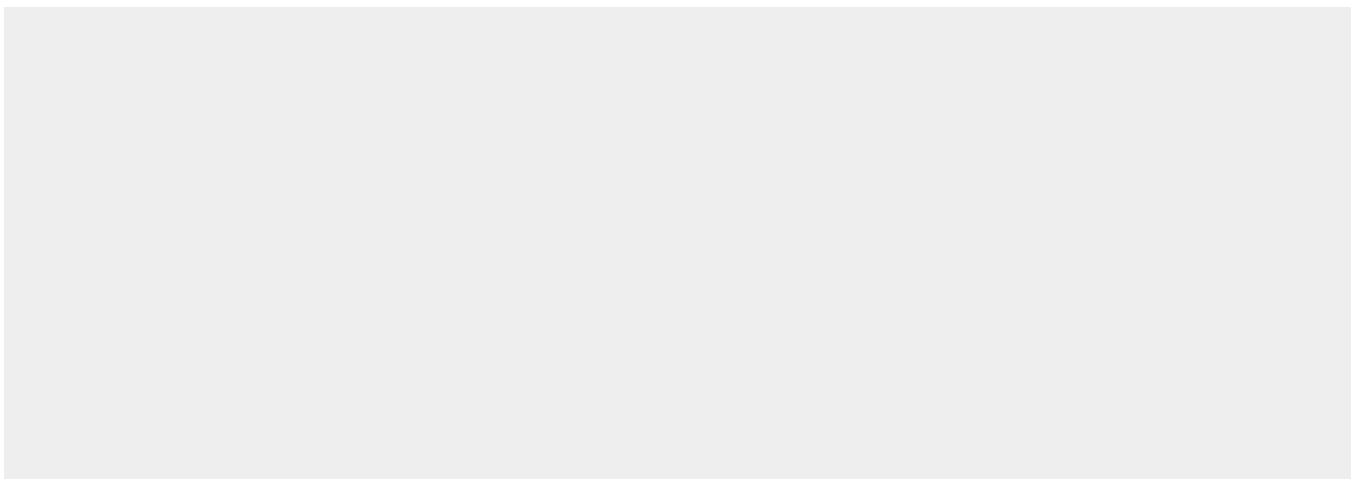
Tissue Location

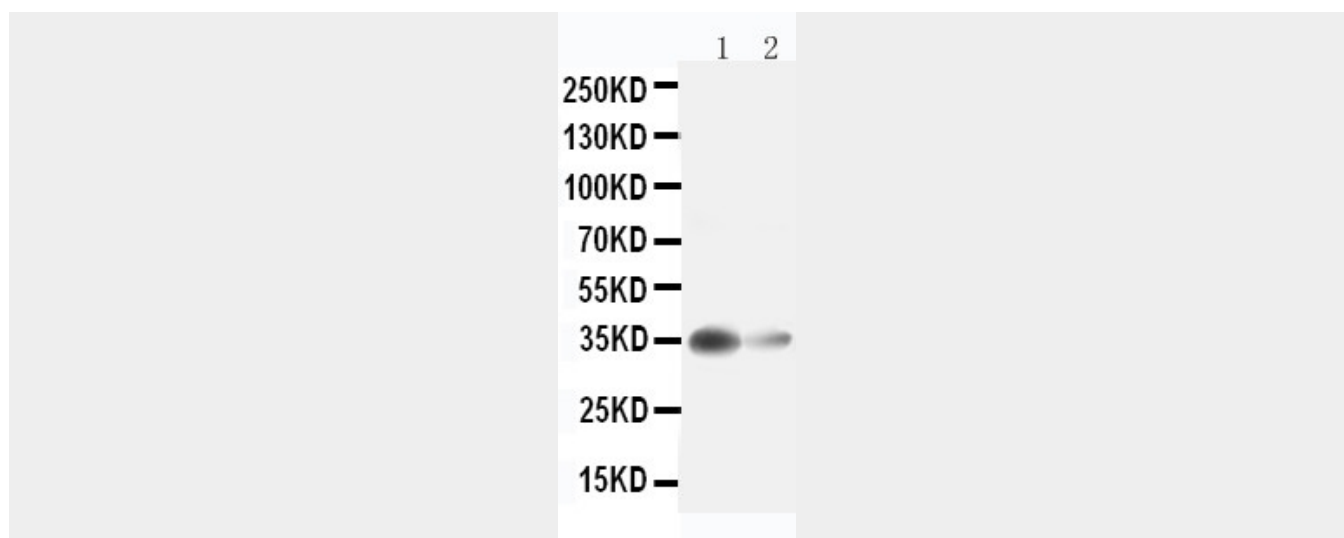
Detected in liver (at protein level).

Anti-liver Arginase Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-liver Arginase Antibody - Images



Anti-liver Arginase antibody, ABO11090, Western blotting Lane 1: Rat Liver Tissue Lysate Lane 2: Rat Kidney Tissue Lysate

Anti-liver Arginase Antibody - Background

ARG1(arginase, live) is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. The isoform encoded by ARG1, referred to as the liver, or A-I, isoform, contributes 98% of the arginase activity in liver but is also present in red cells. Using a rat liver ARG1 cDNA clone to probe a human liver cDNA library, Haraguchi et al.(1987) isolated and characterized a cDNA corresponding to the ARG1 gene. The ARG1 gene is mapped on 6q23.2 and the arginase gene contains 8 exons. By immunologic studies, 90% of the arginase in red blood cell and liver was precipitated by the antibody, whereas only 50% of the arginase in kidney, brain, and the gastrointestinal tract reacted with it. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene.