

Anti-liver Arginase/ARG1 Antibody

Catalog Number: RP1075

About ARG1

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.

Overview

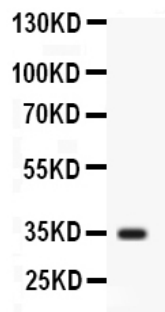
Product Name	Anti-liver Arginase/ARG1 Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-liver Arginase/ARG1 Antibody catalog # RP1075. Tested in WB applications. This antibody reacts with Human, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P05089

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human liver Arginase, different from the related mouse sequence by four amino acids, and from the related rat sequence by five amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Rat, Human

Anti-liver Arginase/ARG1 Antibody (RP1075) Images



Anti-Liver Arginase antibody, RP1075, Western blotting
All lanes: Anti Liver Arginase (RP1075) at 0.5ug/ml
WB: Rat Liver Tissue Lysate at 50ug
Predicted bind size: 35KD
Observed bind size: 35KD

1 Publications Citing This Product

1. PubMed ID: 30151392, Panax notoginseng Saponins Regulate Macrophage Polarization under Hyperglycemic Condition via NF- κ B Signaling Pathway

Visit bosterbio.com/anti-liver-arginase-antibody-rp1075-boster.html to see all 1 publications.

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