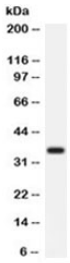
Arginase Antibody / ARG1 (R31889)

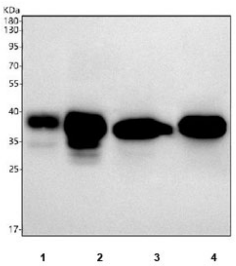
Catalog No.	Formulation	Size
R31889	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	P05089
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Arginase antibody is available for research use only.



Western blot testing of rat liver lysate with Arginase antibody. Expected weight ~35 kDa.



Western blot testing of 1) human HCCT, 2) human HCCP, 3) rat liver and 4) mouse liver tissue lysate with Arginase antibody. Expected weight ~35 kDa.

Description

ARG1 (arginase, liver) 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.

Application Notes

Optimal dilution of the Arginase antibody should be determined by the researcher.

Immunogen

Amino acids FQIVKNPRSVGKASEQLAGKVAEVKKNGR of human ARG1 were used as the immunogen for the Arginase antibody.

Storage

After reconstitution, the Arginase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.