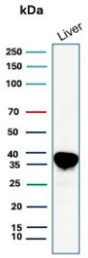
Arginase 1 Antibody / ARG1 [clone ARG1/9446] (V5753)

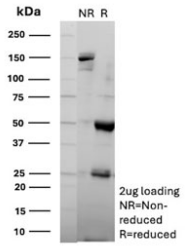
Catalog No.	Formulation	Size
V5753-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5753-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5753SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	ARG1/9446
Purity	Protein G affinity
UniProt	P05089
Localization	Cytoplasm
Applications	Western Blot : 2-4ug/ml
Limitations	This Arginase-1 antibody is available for research use only.



Western blot testing of human liver tissue lysate with Arginase 1 antibody (clone ARG1/9446). Predicted molecular weight ~35 kDa.



SDS-PAGE analysis of purified, BSA-free Arginase 1 antibody (clone ARG1/9446) as confirmation of integrity and purity.

Description

Recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1). Arginase is a manganese metallo-enzyme that catalyzes the hydrolysis of arginine to generate ornithine and urea. Arginase I and II are isoenzymes, which differ in subcellular localization, regulation, and possibly function. Arginase I is a cytosolic enzyme, which is expressed mainly in the liver as part of the urea cycle, whereas arginase II is a mitochondrial protein found in a variety of tissues. Antibody to ARG-1 labels hepatocytes in normal tissues and granulocytes in peripheral blood. ARG-1 is a sensitive and specific marker for identification of hepatocellular carcinoma.

Application Notes

Optimal dilution of the Arginase-1 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 1-200 from human ARG1 proteinwas used as the immunogen for the Arginase-1 antibody.

Storage

Aliquot the Arginase-1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.