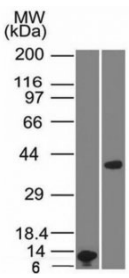
Arginase 1 Antibody [clone ARG1/1125] (V2651)

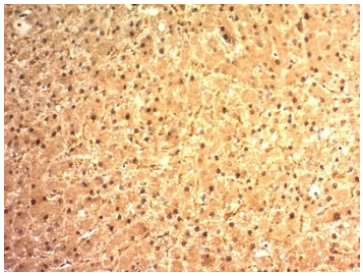
Catalog No.	Formulation	Size
V2651-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2651-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2651SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2651IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

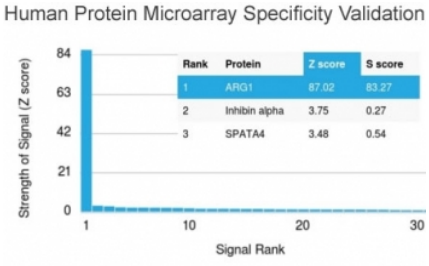
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG3, kappa
Clone Name	ARG1/1125
Purity	Protein G affinity chromatography
UniProt	P05089
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-4ug/ml for 30 min at RT
Limitations	This Arginase 1 antibody is available for research use only.



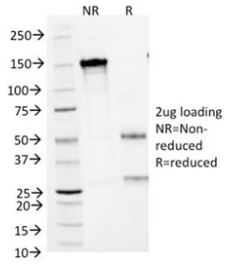
Western blot analysis of A) partial recombinant ARG1 protein and B) human liver lysate using Arginase 1 antibody (ARG1/1125). Predicted molecular weight ~35 kDa.



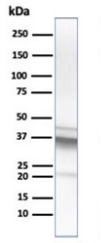
IHC: Formalin-fixed, paraffin-embedded human hepatocellular carcinoma stained with Arginase 1 antibody (ARG1/1125). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT prior to testing.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Arginase 1 antibody (clone ARG1/1125). These results demonstrate the foremost specificity of the ARG1/1125 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free Arginase 1 antibody (clone ARG1/1125) as confirmation of integrity and purity.



Western blot analysis of human liver lysate using Arginase 1 antibody (ARG1/1125). Predicted molecular weight ~35 kDa.

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.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant fragment from amino acids 1-150 of human ARG1 was used as the immunogen for the Arginase 1 antibody.

Storage

Store the Arginase 1 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Copyright © NSJ Bioreagents. All rights reserved.