Anti-Arginase 1 Antibody [ARG1/1125] (A249116)

Specifications:

Name:	Anti-Arginase 1 Antibody [ARG1/1125]
Description:	Mouse monoclonal [ARG1/1125] antibody to Arginase 1.
Specificity:	This antibody 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.
Applications:	WB, IHC-P
Recommended Dilutions:	WB: 1-2 µg/ml, IHC-P: 2-4 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 11-97, of human ARG1 protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	ARG1/1125
Isotype:	IgG3
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Store at 4°C.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-Arginase 1 Antibody [ARG1/1125] - BSA and Azide free (A252296).
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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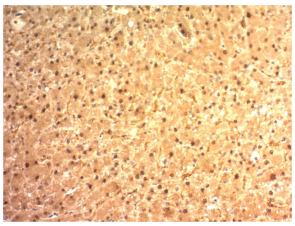
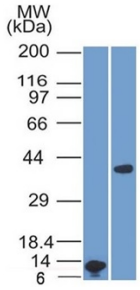
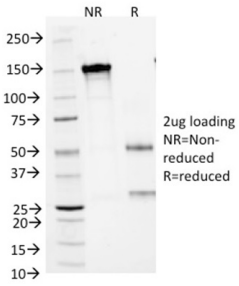
Images:



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human hepatocellular carcinoma using Anti-Arginase 1 Antibody [ARG1/1125].



Western blot analysis of (A) recombinant ARG1 protein fragment and (B) human liver lysate using Anti-Arginase 1 Antibody [ARG1/1125].



SDS-PAGE analysis of Anti-Arginase 1 Antibody [ARG1/1125] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

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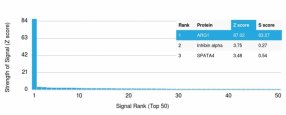
Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-Arginase 1 Antibody [ARG1/1125]. Z-Score and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.