Arginase1 (Hepatocellular Carcinoma Marker) Antibody

Mouse Monoclonal Antibody [Clone ARG1/1126]

Catalog No	Format	Size
383-MSM2-P0	Purified Ab with BSA and Azide	200ug/ml
383-MSM2-P1	Purified Ab with BSA and Azide	200ug/ml
383-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

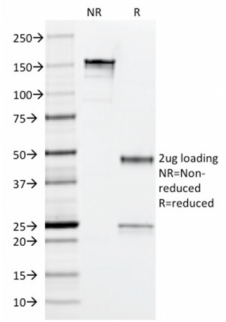
Applications	Tested Dillution
Western Blot (WB)	2-4ug/ml

Product Details

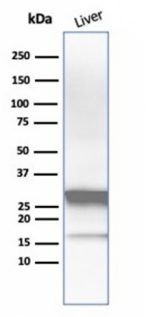
Clone	ARG1/1126
Gene Name	ARG1
Immunogen	Recombinant fragment (around aa11-97) of human ARG1 protein(exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG3 / Kappa
Mol. Weight of Antigen	35-38kDa
Cellular Localization	Cytoplasm, Cytoplasmic granule
Species Reactivity	Human
Positive Control	293Tcells. Hepatocellular Carcinoma (HCC).

**Optimal dilution for a specific application should be determined.*

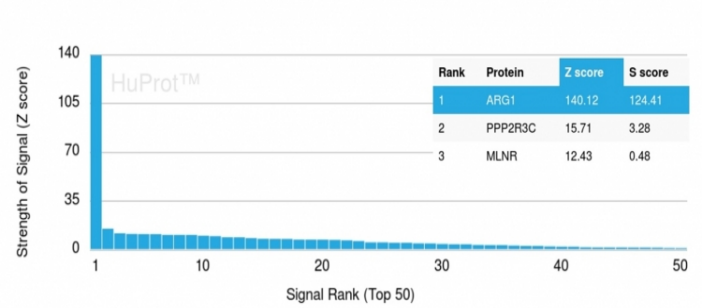
Product Images for Arginase1 (Hepatocellular Carcinoma Marker) Antibody



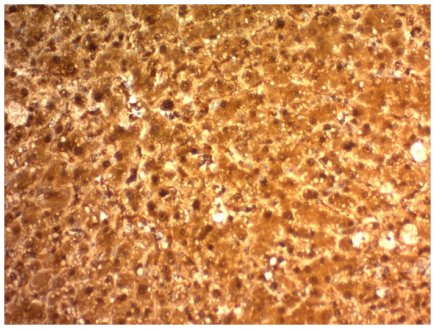
SDS-PAGE Analysis of Purified ARG1-MonospecificMouse Monoclonal Antibody (ARG1/1126). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of Liver tissue lysate using ARG1Mouse Monoclonal Antibody (ARG1/1126).



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing ARG1-MonospecificMouse Monoclonal Antibody (ARG1/1126). Z- 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 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.



Formalin-fixed, paraffin-embeddedhuman Hepatocellular Carcinomastained with ARG1-MonospecificMouse Monoclonal Antibody (ARG1/1126).

Specificity & Comments

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.

Research Areas

Cardiovascular, Immunology, Dendritic Cell Marker

Known Applications & Suggested Dilutions

Western Blot (2-4ug/ml) | ,Immunohistology (Formalin-fixed) (2-4ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.