

## Arginase1 (Hepatocellular Carcinoma Marker) Antibody

Mouse Monoclonal Antibody [Clone ARG1/1125]

Catalog No	Format	Size
383-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
383-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
383-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

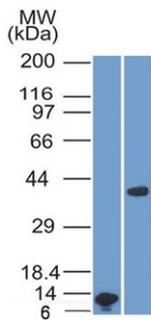
Applications	Tested Dillution	Note
Western Blot (WB)	2-4ug/ml	

### Product Details

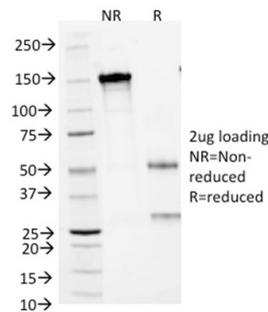
<b>Clone</b>	ARG1/1125
<b>Gene Name</b>	ARG1
<b>Immunogen</b>	Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG3 / Kappa
<b>Mol. Weight of Antigen</b>	35-38kDa
<b>Cellular Localization</b>	Cytoplasm, Cytoplasmic granule
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	293-T cells. Hepatocellular Carcinoma (HCC).

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

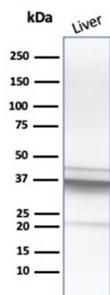
### Product Images for Arginase1 (Hepatocellular Carcinoma Marker) Antibody



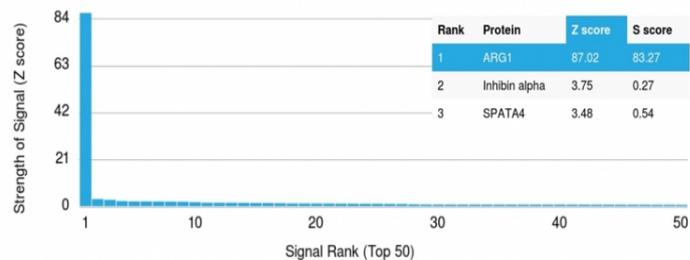
Western Blot Analysis A) Recombinant ARG1 Protein Fragment (B) human liver tissue lysate using Arginase-1 Mouse Monoclonal Antibody (ARG1/1125).



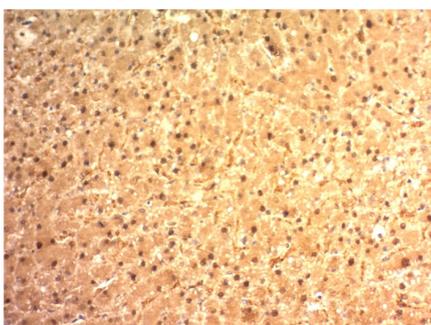
SDS-PAGE Analysis of Purified ARG1 Mouse Monoclonal Antibody (ARG1/1125). Confirmation of Integrity and Purity of Antibody.



Western Blot Analysis of human liver tissue lysate using Arginase-1 Mouse Monoclonal Antibody (ARG1/1125).



Analysis of Protein Array containing more than 19,000 full-length human proteins using Arginase-1 Mouse Monoclonal Antibody (ARG1/1125). 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 HuProt™ 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 HuProt™ 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-embedded human Hepatocellular Carcinoma stained with Arginase-1 Mouse Monoclonal Antibody (ARG1/1125).

### 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.

### 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.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% 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.

### Research Areas

Cardiovascular, Dendritic Cell Marker, Immunology