

Datasheet for ABIN6939857  
**anti-Liver Arginase antibody (AA 11-97)**

## 4 Images

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## Overview

Quantity:	100 µg
Target:	Liver Arginase (ARG1)
Binding Specificity:	AA 11-97
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Liver Arginase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)
Clone:	ARG1-1125
Isotype:	IgG3 kappa
Specificity:	Recognizes a protein of 35-38 kDa, 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.
Purification:	Purified by Protein A/G

## Target Details

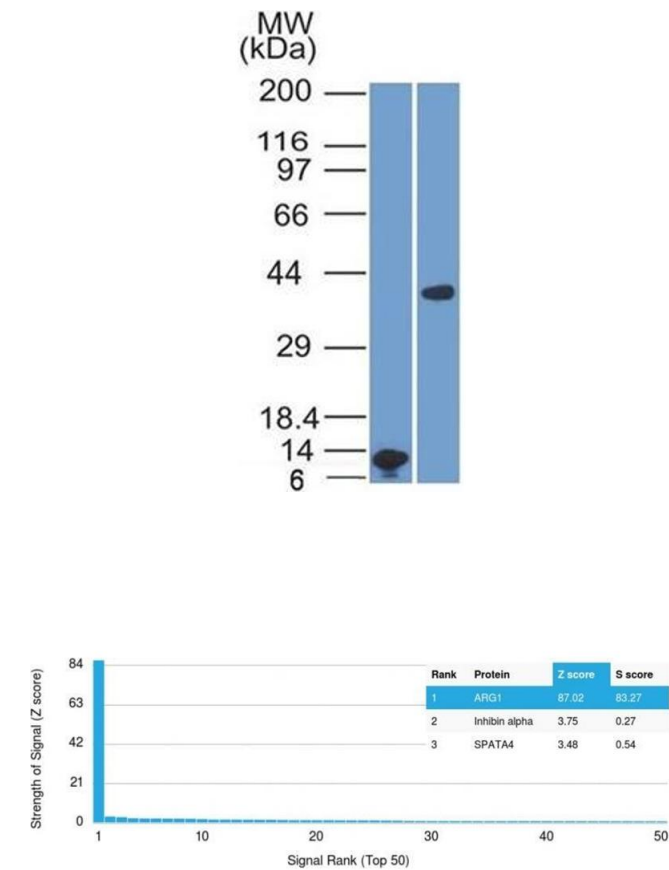
Target:	Liver Arginase (ARG1)
Alternative Name:	ARG1 ( <a href="#">ARG1 Products</a> )
Molecular Weight:	35-38kDa
Gene ID:	383
UniProt:	<a href="#">P05089</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a>

## Application Details

Application Notes:	Positive Control: 293T cells. Hepatocellular Carcinoma (HCC). Known Application: Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (2-4 µg/mL for 30 minutes at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM 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.
Restrictions:	For Research Use only

## Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -80 °C
Storage Comment:	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.
Expiry Date:	24 months

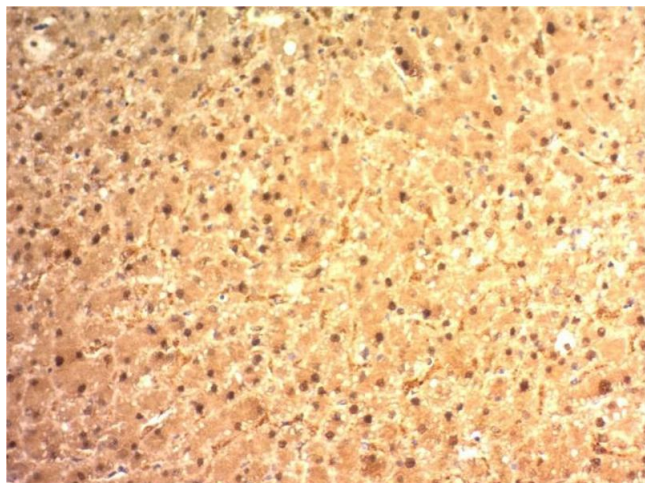


Western Blotting

**Image 1.** Western Blot Analysis A) Recombinant ARG1 Protein Fragment (B) human Liver lysate Using ARG1 Mouse Monoclonal Antibody (ARG1/1125).

Protein Array

**Image 2.** 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 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.



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with ARG1 Mouse Monoclonal Antibody (ARG1/1125).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939857.