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36-2645: Anti-Arginase 1 (Hepatocellular Carcinoma Marker) Monoclonal Antibody(Clone: ARG1/1125)

Clonality :	Monoclonal
Clone Name :	ARG1/1125
Application :	WB,IHC
Reactivity :	Human
Gene :	ARG1
Gene ID :	383
Uniprot ID :	P05089
Alternative Name :	Arginase 1; ARG1; liver-type arginase; type I arginase
Isotype :	Mouse IgG3, kappa
Immunogen Informatio	n : Recombinant human ARG1 protein fragment (around aa11-97) (exact sequence is proprietary)

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.

Product Info

Amount :	20 μg / 100 μg
Content :	200 μg/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 condition :	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.

Application Note

Western Blotting (1-2ug/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),



Fig. 1: Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with ARG1 Mouse Monoclonal Antibody (ARG1/1125).

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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Fig. 2: Western Blot Analysis A) Recombinant ARG1 Protein Fragment (B) human Liver lysate Using ARG1 Mouse Monoclonal Antibody (ARG1/1125).

Fig. 3: SDS-PAGE Analysis Purified ARG1 Mouse Monoclonal Antibody (ARG1/1125). Confirmation of Integrity and Purity of Antibody.



Fig. 4: 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.