

# Product Datasheet

## **Arginase 1/ARG1/liver Arginase Antibody (ARG1/1125) - Azide and BSA Free NBP2-47998-0.1mg**

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-47998-0.1mg**

Arginase 1/ARG1/liver Arginase Antibody (ARG1/1125) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	ARG1/1125
Preservative	No Preservative
Isotype	IgG3 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	36.5 kDa

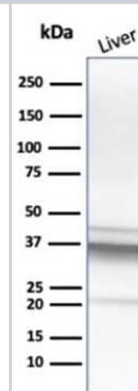
Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-44965).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.
Host	Mouse
Gene ID	383
Gene Symbol	ARG1
Species	Human
Reactivity Notes	Others not known.
Marker	Hepatocellular Carcinoma Marker
Specificity/Sensitivity	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.
Immunogen	Recombinant human Arginase 1/ARG1/liver Arginase protein fragment (around aa11-97) (exact sequence is proprietary) (Uniprot: P05089)

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array
Recommended Dilutions	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array
Application Notes	Immunohistochemistry (Formalin-fixed): 2-4ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

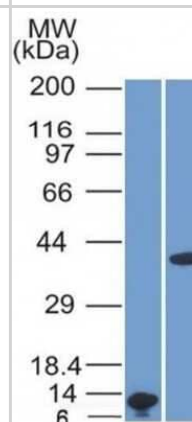


## Images

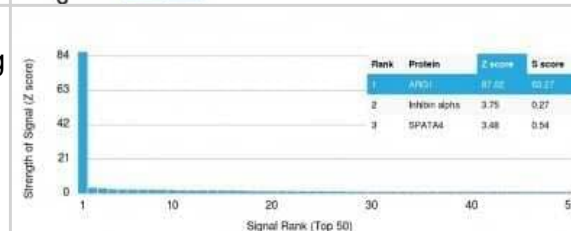
Western Blot: Arginase 1/ARG1/liver Arginase Antibody (ARG1/1125) - Azide and BSA Free [NBP2-47998] - Western Blot Analysis of human liver tissue lysate using Arginase 1/ARG1/liver Arginase antibody (ARG1/1125).



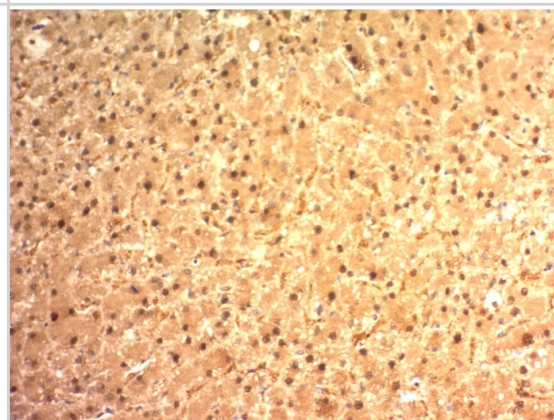
Western Blot: Arginase 1/ARG1/liver Arginase Antibody (ARG1/1125) - Azide and BSA Free [NBP2-47998] - Analysis A) Recombinant ARG1 Protein Fragment (B) human Liver Lysate using ARG1 Monoclonal Antibody (ARG1/1125).



Protein Array: Arginase 1/ARG1/liver Arginase Antibody (ARG1/1125) - Azide and BSA Free [NBP2-47998] - Analysis of Protein Array containing more than 19,000 full-length human proteins using Arginase 1/ARG1/liver Arginase 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 (TM) 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(TM) 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.



Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with Arginase 1/ARG1/liver Arginase antibody (ARG1/1125).





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### **Products Related to NBP2-47998-0.1mg**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96978	Mouse IgG3 Kappa Light Chain Isotype Control (MG3K)
NBP1-87455PEP	Arginase 1/ARG1/liver Arginase Recombinant Protein Antigen

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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