

# Product Datasheet

## Arginase 1/ARG1/liver Arginase Antibody NBP1-87490

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 6

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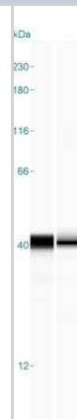
**NBP1-87490**

## Arginase 1/ARG1/liver Arginase Antibody

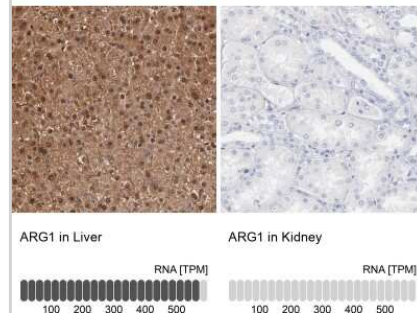
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Host	Rabbit
Gene ID	383
Gene Symbol	ARG1
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (82%), Rat (81%). Reactivity reported in scientific literature (PMID: 18715028)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: TIGIIGAPFSKGGQPRGGVEEGPTVLRKAGLLEKLKEQECDVKDYGDLPFADIPN DSPFQIVKNPRSVGKASEQLAGKVAEVKKNGRISLVLGGDHSLSAIGSISGHARV HPDLGVIWVDA
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:50, Immunohistochemistry 1:2500 - 1:5000, Immunohistochemistry-Paraffin 1:2500 - 1:5000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.  In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

## Images

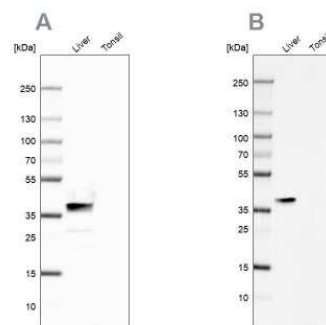
Simple Western: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Simple Western lane view shows a specific band for ARG1 in 0.2 mg/ml of Liver (left), HepG2 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



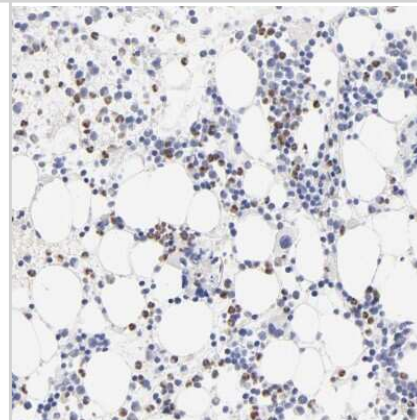
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining in human liver and kidney tissues . Corresponding ARG1 RNA-seq data are presented for the same tissues.



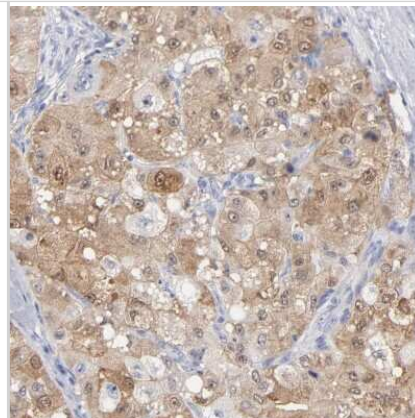
Western Blot: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Analysis using Anti-ARG1 antibody NBP1-87490 (A) shows similar pattern to independent antibody NBP1-87455 (B).



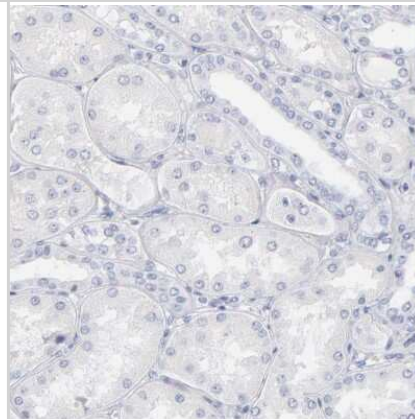
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human bone marrow shows strong cytoplasmic and nuclear positivity in a subset of hematopoietic cells.



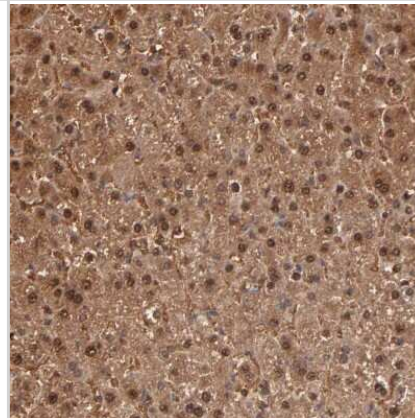
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human hepatocellular carcinoma shows moderate cytoplasmic and nuclear positivity in tumor cells.



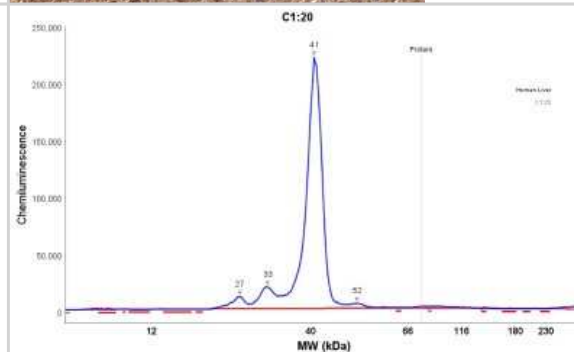
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human kidney shows no positivity in cells in tubules as expected.



Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human liver shows strong cytoplasmic and nuclear positivity in hepatocytes.



Simple Western: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Electropherogram image(s) of corresponding Simple Western lane view. Arginase 1/ARG1/liver Arginase antibody was used at 1:50 dilution on Liver and HepG2 lysate(s).



## Publications

Yang J, Gonon AT, Sjoquist PO et al. Arginase regulates red blood cell nitric oxide synthase and export of cardioprotective nitric oxide bioactivity. *Proc Natl Acad Sci U S A* 2013-09-10 [PMID: 23980179]

Shemyakin A, Kovamees O, Rafnsson A et al. Arginase inhibition improves endothelial function in patients with coronary artery disease and type 2 diabetes mellitus. *Circulation* 2012-12-18 [PMID: 23183942]

Chaerkady R, Harsha HC, Nalli A et al. A Quantitative Proteomic Approach for Identification of Potential Biomarkers in Hepatocellular Carcinoma. *J Proteome Res* 2008-10-01 [PMID: 18715028]

Gonon AT, Jung C, Katz A et al. Local arginase inhibition during early reperfusion mediates cardioprotection via increased nitric oxide production. *PLoS One* 2012-01-01 [PMID: 22860052]

Gronros J, Jung C, Lundberg JO et al. Arginase inhibition restores in vivo coronary microvascular function in type 2 diabetic rats. *Am J Physiol Heart Circ Physiol* 2011-04-01 [PMID: 21297024]

Yan BC, Gong C, Song J et al. Arginase-1: a new immunohistochemical marker of hepatocytes and hepatocellular neoplasms. *Am J Surg Pathol* 2010-08-01 [PMID: 20661013]





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### **Products Related to NBP1-87490**

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NBP1-87490PEP	Arginase 1/ARG1/liver Arginase Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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