

Product Datasheet

Arginase 1/ARG1/liver Arginase Antibody - BSA Free NBP1-87490

Unit Size: 0.1 ml

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

www.novusbio.com



technical@novusbio.com

Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-87490

Updated 12/2/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-87490



NBP1-87490

Arginase 1/ARG1/liver Arginase Antibody - BSA Free

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	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit Arginase 1/ARG1/liver Arginase Antibody - BSA Free (NBP1-87490) is a polyclonal antibody validated for use in IHC, WB and Simple Western. Anti-Arginase 1/ARG1/liver Arginase Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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 DSPFQIVKNPRSVGKASEQLAGKVAEVKKNRISLVGGDHSLAIGSISGHARV HPDLGVIWVDA

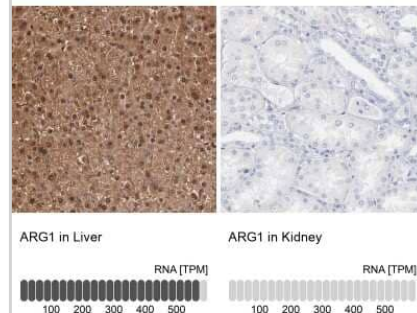
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:50, Immunohistochemistry 1:2500 - 1:5000, Immunohistochemistry-Paraffin 1:2500 - 1:5000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Liver, HepG2, separated by Size, antibody dilution of 1:50, apparent MW was 41 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

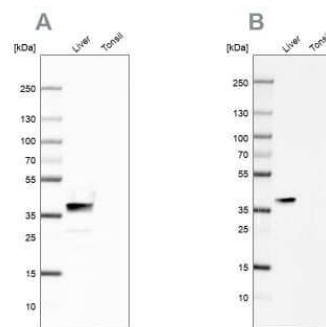
Simple Western: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Simple Western lane view shows a specific band for ARG1 in 0.2 mg/ml of Liver (left), HepG2 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



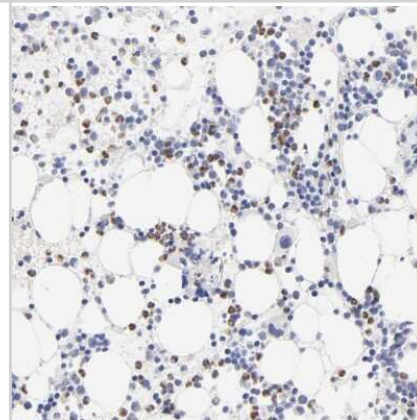
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining in human liver and kidney tissues . Corresponding ARG1 RNA-seq data are presented for the same tissues.



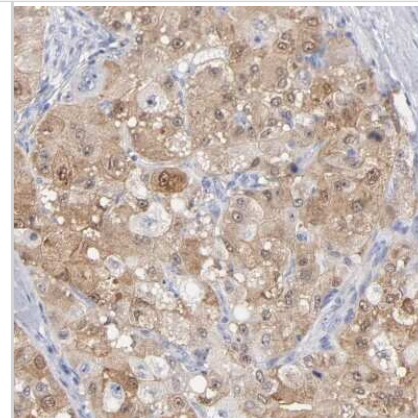
Western Blot: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Analysis using Anti-ARG1 antibody NBP1-87490 (A) shows similar pattern to independent antibody NBP1-87455 (B).



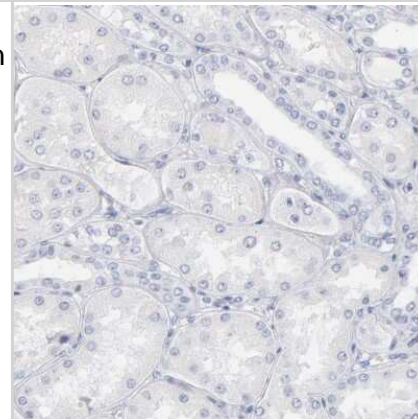
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human bone marrow shows strong cytoplasmic and nuclear positivity in a subset of hematopoietic cells.



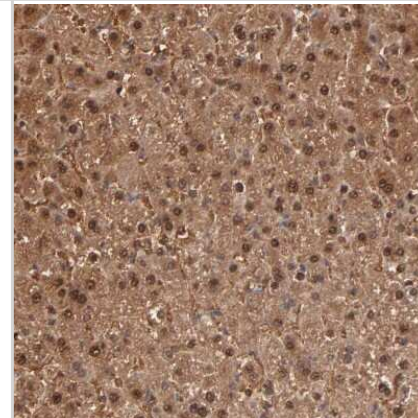
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human hepatocellular carcinoma shows moderate cytoplasmic and nuclear positivity in tumor cells.



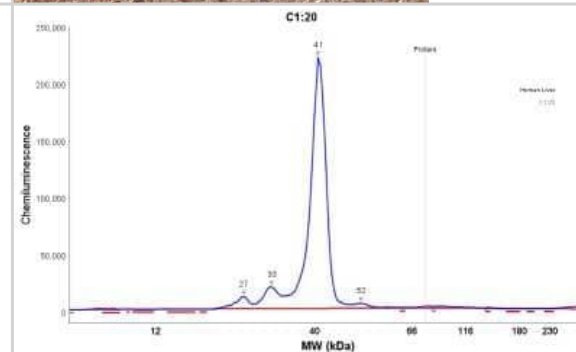
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody [NBP1-87490] - Staining of human kidney shows no positivity in cells in tubules as expected.



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]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-87490

NBP1-87490PEP	Arginase 1/ARG1/liver Arginase Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-87490

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

