Product Datasheet

Arginase 1/ARG1/liver Arginase Antibody
NB100-59740

Unit Size: 0.1 mg

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

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Publications: 20

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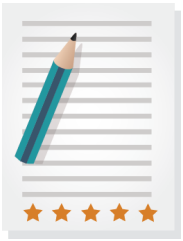
Updated 9/9/2025 v.20.1



NB100-59740

Arginase 1/ARG1/liver Arginase Antibody

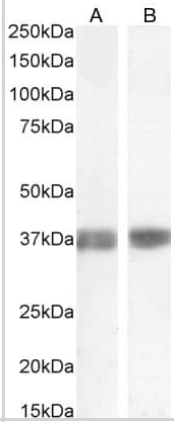
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	37 kDa

Product Description	
Description	Novus Biologicals Goat Arginase 1/ARG1/liver Arginase Antibody (NB100-59740) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and Simple Western. Anti-Arginase 1/ARG1/liver Arginase Antibody: Cited in 18 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	383
Gene Symbol	ARG1
Species	Human, Mouse, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 28246332).
Immunogen	Peptide with sequence C-NHKPETDYLKPPK corresponding to C-Terminus according to NP_058830.2.

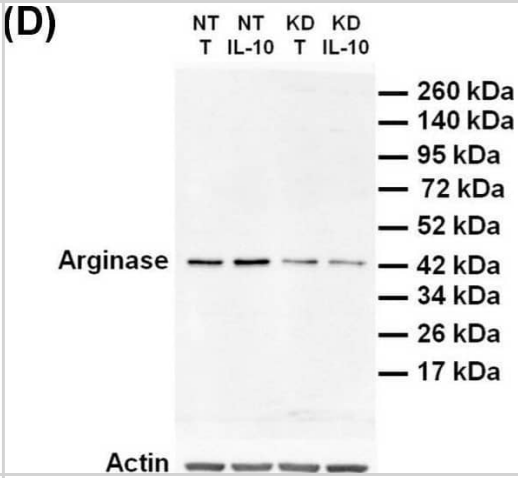
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA
Recommended Dilutions	Western Blot 0.003-0.01 ug/ml, Simple Western 5 ug/mL, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen, Peptide ELISA 1:64000
Application Notes	WB: Approx. 37 kDa band observed in mouse and rat liver lysates (calculated MW of 35 kDa band according to NP_058830.2 and 34.8kDa according to Mouse NP_031508.1). Primary incubation 1 hour at room temperature. IHC-F usage is reported in scientific literature (PMID: 24089194). Use in ICC/IF reported in scientific literature (PMID 28246332). Use in Flow Cytometry reported in (PMID: 24089194). Use in IHC reported in scientific literature (PMID: 23207546). See Simple Western Antibody Database for Simple Western validation: Tested in Mouse liver lysate, separated by Size, antibody dilution of 5 ug/mL

Images

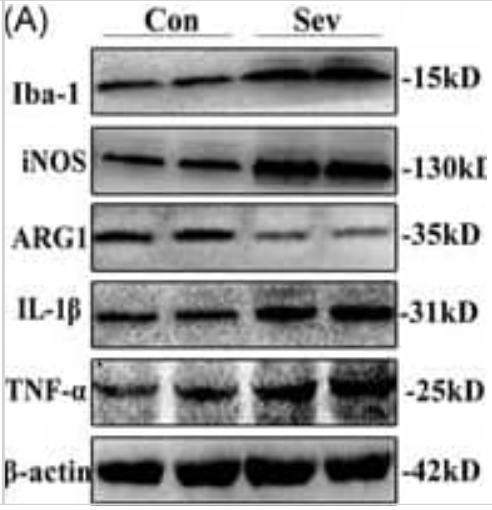
Western Blot: Arginase 1/ARG1/liver Arginase Antibody [NB100-59740] - (0.003ug/ml) staining of Mouse (A) and Rat (B) Liver lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



Under IL-10 treatment, PC1/3 KD cells exhibit lower levels of arginase than NT cells. NT and PC1/3 KD NR8383 macrophages were treated with 20 ng/mL of IL-10 for 24 h. (A) Western blot studies conducted with anti-iNOS. (B) Intensities of iNOS quantified and normalized to those of Actin. (C) Intensities of s-iNOS quantified and normalized to those of Actin. (D) Western blot studies conducted with anti-arginase. (E) Intensities of arginase quantified and normalized to those of Actin. The results are obtained from three independent experiments and depicted through graphic representations (means +/- SD). Data are analyzed by the Student t-test and values of $p < 0.05$ are considered statistically significant (*p-value of <0.05, **p-value of <0.01). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/31766635), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western blot results. (A) Representative Western blot and quantitative analysis of protein levels of Iba□1, iNOS, ARG1, IL□1β, and TNF□α in PFC tissues, n = 6. (B) Relative level of Iba□1 protein in PFC (fold change relative to β□actin protein level). (C) The relative level of iNOS protein in PFC (fold change relative to β□actin protein level). (D) The relative level of ARG1 protein in PFC (fold change relative to β□actin protein level). (E) The relative level of IL□1β protein in PFC (fold change relative to β□actin protein level). (F) The relative level of TNF□α protein in PFC (fold change relative to β□actin protein level). *p < 0.05 versus Con group. ARG1, arginase□1; IL□1β, interleukin□1β; iNOS, inducible nitric oxide synthase; PFC, prefrontal cortex; TNF□α, tumor necrosis factor□α [Color figure can be viewed at wileyonlinelibrary.com] Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/37786559), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zheng X, Xu Z, Xu L et al. Angiotensin II Type 2 Receptor Inhibits M1 Polarization and Apoptosis of Alveolar Macrophage and Protects Against Mechanical Ventilation-Induced Lung Injury. Inflammation 2025-03-25 [PMID: 38767784]

Lopez R, Li B, Keren-Shaul H et al. DestVI identifies continuums of cell types in spatial transcriptomics data Nature Biotechnology 2022-09-01 [PMID: 35449415]

Andrew PM, MacMahon JA, Bernardino PN, Tsai YH et Al. Shifts in the spatiotemporal profile of inflammatory phenotypes of innate immune cells in the rat brain following acute intoxication with the organophosphate diisopropylfluorophosphate J Neuroinflammation 2024-11-04 [PMID: 39497181]

Bastiancich C, Snacel-Fazy E, Fernandez S et Al. Tailoring glioblastoma treatment based on longitudinal analysis of post-surgical tumor microenvironment J Exp Clin Cancer Res 2024-11-28 [PMID: 39605004]

Kim H, You M, Sung S et al. Possible involvement of microglial P2RY12 and peripheral IL-10 in postpartum depression Frontiers in Cellular Neuroscience 2023-06-15 [PMID: 37396924] (Western Blot)

Liu S, Hur YH, Cai X et al. A tissue injury sensing and repair pathway distinct from host pathogen defense Cell 2023-04-24 [PMID: 37098344] (IHC-Fr, Mouse)

Li Y, Acosta F, Quan Y et al. Studying macrophage activation in immune-privileged lens through CSF-1 protein intravitreal injection in mouse model STAR Protocols 2022-03-01 [PMID: 35005642] (IHC-Fr, Mouse)

Zhou J, Zhang C, Yang X et al. Study on the effect of sevoflurane on the cognitive function of aged rats based on the activation of cortical microglia Ibrain 2021-12-01 (WB, Rat)

Ghallab A, Myllys M, Friebel A et al. Spatio-Temporal Multiscale Analysis of Western Diet-Fed Mice Reveals a Translationally Relevant Sequence of Events during NAFLD Progression Cells 2021-09-23 [PMID: 34685496] (IF/IHC, Mouse)

Shao D, Li K, You M et al. Macrophage polarization by plasma sprayed ceria coatings on titanium-based implants: Cerium valence state matters iScience 2021-06-18 [PMID: 34142044] (Mouse)

McLane V D, Kumar S et al. Morphine-potentiated cognitive deficits correlate to suppressed hippocampal iNOS RNA expression and an absent type 1 interferon response in LP-BM5 murine AIDS. J Neuroimmunol 2018-06-15 [PMID: 29526406] (IF/IHC, Mouse)

Sadler R, Cramer JV, Heindl S et al. Short-Chain Fatty Acids Improve Poststroke Recovery via Immunological Mechanisms J. Neurosci. 2020-01-29 [PMID: 31889008] (IF/IHC, Mouse)

More publications at http://www.novusbio.com/NB100-59740

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Products Related to NB100-59740

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

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