

# Product Datasheet

## Arginase 1/ARG1/liver Arginase Antibody (OTI4E6) NBP2-03618

Unit Size: 0.1 ml

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

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**NBP2-03618**

Arginase 1/ARG1/liver Arginase Antibody (OTI4E6)

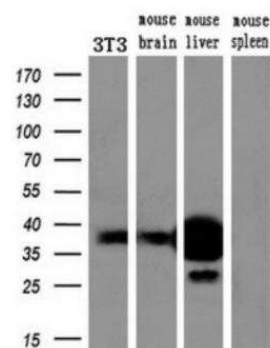
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI4E6
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	34.6 kDa

Product Description	
Host	Mouse
Gene ID	383
Gene Symbol	ARG1
Species	Human, Mouse, Rat
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Full length human recombinant protein of human ARG1 (NP_000036) produced in HEK293T cell.

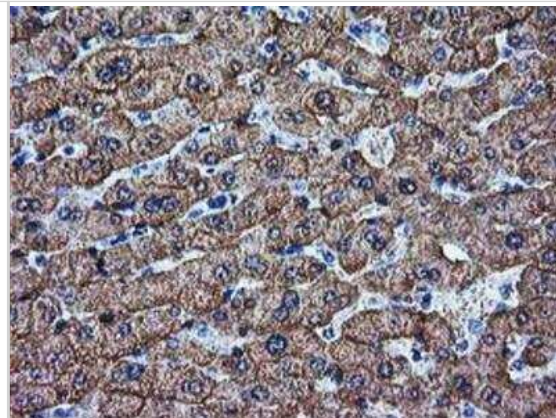
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:1000-2000, Flow Cytometry 1:100, Immunohistochemistry 1:50, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID:32240815), Immunohistochemistry-Paraffin 1:50

**Images**

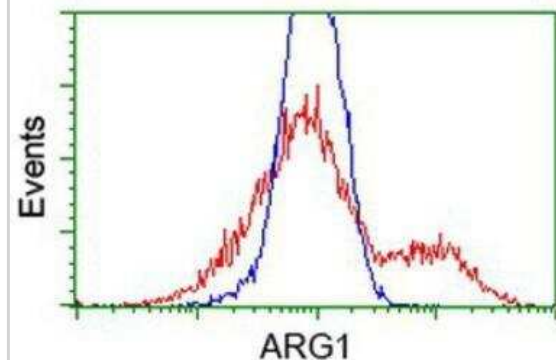
Western Blot: Arginase 1/ARG1/liver Arginase Antibody (4E6) [NBP2-03618] - Analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using antiARG1 monoclonal antibody.(1:200)



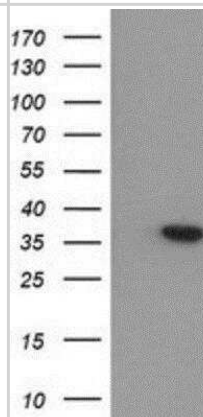
Immunohistochemistry-Paraffin: Arginase 1/ARG1/liver Arginase Antibody (4E6) [NBP2-03618] - Staining of paraffin-embedded Human liver tissue using anti-liver Arginase mouse monoclonal antibody.



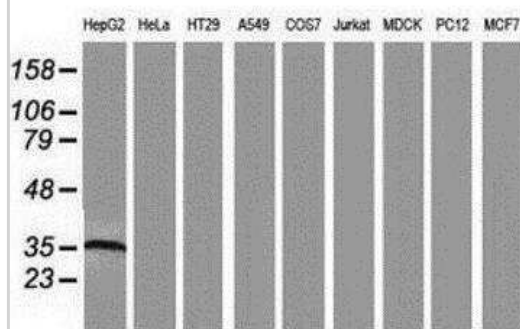
Flow Cytometry: Arginase 1/ARG1/liver Arginase Antibody (4E6) [NBP2-03618] - HEK293T cells transfected with either overexpression plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-liver Arginase antibody, and then analyzed by flow cytometry.



Western Blot: Arginase 1/ARG1/liver Arginase Antibody (4E6) [NBP2-03618] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY liver Arginase (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-liver Arginase.



Western Blot: Arginase 1/ARG1/liver Arginase Antibody (4E6) [NBP2-03618] - Analysis of extracts (35ug) from 9 different cell lines by using anti-liver Arginase monoclonal antibody.



## Publications

Roy RM, Allawzi A, Burns N et al. Lactate produced by alveolar type II cells suppresses inflammatory alveolar macrophages in acute lung injury FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2023-12-01 [PMID: 37983890]

Chen S, Yu Y, Xie S et al. Local H2 release remodels senescence microenvironment for improved repair of injured bone Nature communications 2023-11-27 [PMID: 38012166] (IHC)

Rizzo AN, Belvitch P, Demeritte R et al. Arg mediates LPS-induced disruption of the pulmonary endothelial barrier Vascul. Pharmacol. 2020-03-30 [PMID: 32240815] (ICC/IF, Human)

Haloul M, Oliveira ERA, Kader M et al. mTORC1-mediated polarization of M1 macrophages and their accumulation in the liver correlate with immunopathology in fatal ehrlichiosis Sci Rep. 2019-10-01 [PMID: 31575880] (WB, Mouse)

### Details:

Citation used the PE format of this antibody.

Kang, H;Yang, B;Zhang, K;Pan, Q;Yuan, W;Li, G;Bian, L; Immunoregulation of macrophages by dynamic ligand presentation via ligand-cation coordination Nat Commun 2019-04-12 [PMID: 30979900] (FLOW, Mouse)





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### **Products Related to NBP2-03618**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-87455PEP	Arginase 1/ARG1/liver Arginase Recombinant Protein Antigen

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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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