

ARG1 Antibody

Catalog No: #32468

Package Size: #32468-1 50ul #32468-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

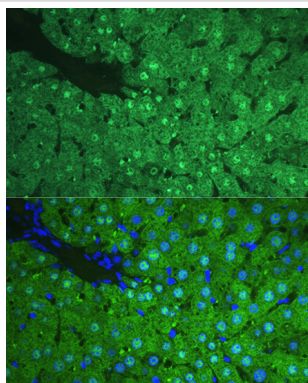
Description

Product Name	ARG1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC,IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total ARG1 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ARG1.
Conjugates	Unconjugated
Target Name	ARG1
Other Names	ARG1; Arginase-1; Liver-type arginase; Type I arginase;
Accession No.	Swiss-Prot:P05089NCBI Gene ID:383
SDS-PAGE MW	35KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

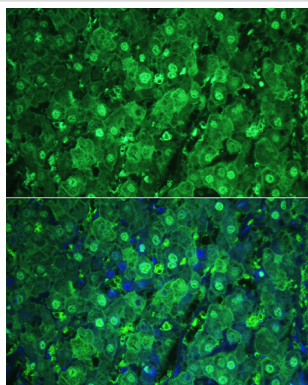
Application Details

WB □ 1:500 - 1:2000 IHC □ 1:50 - 1:200 IF □ 1:50 - 1:200

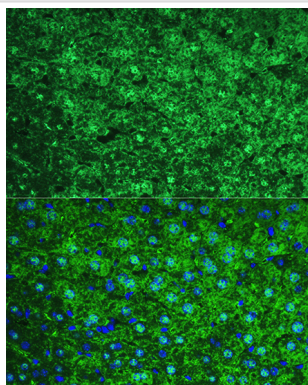
Images



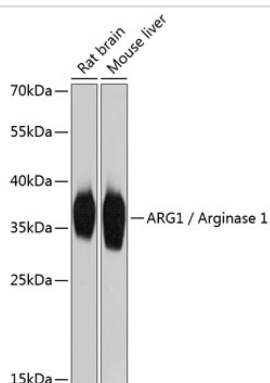
Immunofluorescence analysis of Rat liver using ARG1 / Arginase 1 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



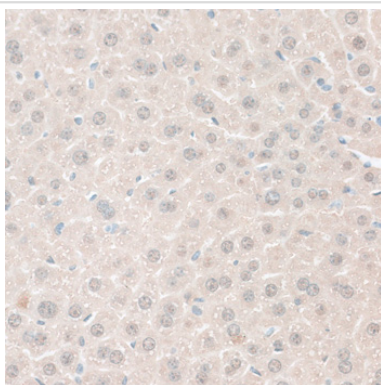
Immunofluorescence analysis of Human liver using ARG1 / Arginase 1 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of Mouse liver using ARG1 / Arginase 1 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



Western blot analysis of extracts of various cell lines, using ARG1 / Arginase 1 antibody at 1:2000 dilution.



Immunohistochemistry of paraffin-embedded mouse liver using ARG1 / Arginase 1 antibody at dilution of 1:100 (40x lens).

Background

Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. Two transcript variants encoding different isoforms have been found for this gene.

Published Papers

el at., Microbial metabolite butyrate facilitates M2 macrophage polarization and function. In Sci Rep on 2016 Apr 20 by Jian Ji , Dingming Shu et al .PMID: 27094081, , (2016)

[PMID:27094081](#)

el at., Adaptogenic flower buds exert cancer preventive effects by enhancing the SCFA-producers, strengthening the epithelial tight junction complex and immune responses. In Pharmacol Res on 2020 Sep by Wenrui Xia, Imran Khan, et al..PMID: 32502642, , (2020)

[PMID:32502642](#)

Xingming Wang;Xiupeng Zhu;Danni Wang;Xiaoxu Li;Juan Wang;Guangfu Yin;Zhongbing Huang;Ximing Pu el at., Identification of a Specific Phage as Growth Factor Alternative Promoting the Recruitment and Differentiation of MSCs in Bone Tissue Regeneration, , (2023)

[PMID:](#)

Ziyan Huang;Ziyan Huang;Ziyan Huang;Ziyan Huang;Xinzhao Jiang;Xinzhao Jiang;Xinzhao Jiang;Xinzhao Jiang;Lichen Zhang;Lichen Zhang;Lichen Zhang;Lichen Zhang;Wei Wang;Wei Wang;Wei Wang;Wei Wang;Ziang Li;Ziang Li;Ziang Li;Ziang Li;Yiyang Huang;Yiyang Huang;Yiyang Huang;Yiyang Huang;Yichang Xu;Yichang Xu;Yichang Xu;Yichang Xu;Liang Zhou;Liang Zhou;Liang Zhou;Liang Zhou;Jie Wu;Jie Wu;Jie Wu;Jie Wu;Jincheng Tang;Jincheng Tang;Jincheng Tang;Jincheng Tang;Kun Xi;Kun Xi;Kun Xi;Kun Xi;Yu Feng;Yu Feng;Yu Feng;Yu Feng;Liang Chen;Liang Chen;Liang Chen;Liang Chen el at., Multifunctional manganese-based nanogels catalyze immune energy metabolism to promote bone repair, , (2025)

[PMID:](#)

Dingzhi Chen;Jieqiong Xie;Xueyuan Chen;Biyun Qin;Deyan Kong;Jiefeng Luo el at., Fecal microbiota transplantation alleviates neuronal Apoptosis, necroptosis and reactive microglia activation after ischemic stroke., , (2025)

[PMID:39491609](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.