Datasheet for ABIN6137075

anti-Liver Arginase antibody (AA 1-322)

2 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	Liver Arginase (ARG1)
Binding Specificity:	AA 1-322
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Liver Arginase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-322 of human Arginase 1 (ARG1) (NP_000036.2).
Sequence:	MSAKSRTIGI IGAPFSKGQP RGGVEEGPTV LRKAGLLEKL KEQECDVKDY GDLPFADIPN DSPFQIVKNP RSVGKASEQL AGKVAEVKKN GRISLVLGGD HSLAIGSISG HARVHPDLGV IWVDAHTDIN TPLTTTSGNL HGQPVSFLLK ELKGKIPDVP GFSWVTPCIS AKDIVYIGLR DVDPGEHYIL KTLGIKYFSM TEVDRLGIGK VMEETLSYLL GRKKRPIHLS FDVDGLDPSF TPATGTPVVG GLTYREGLYI TEEIYKTGLL SGLDIMEVNP SLGKTPEEVT RTVNTAVAIT LACFGLAREG NHKPIDYLNP PK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Product Details

Purification:	Affinity purification

Target Details

Target:	Liver Arginase (ARG1)
Alternative Name:	ARG1 (ARG1 Products)
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.,ARG1,arginase-1,Signal Transduction,Endocrine & Metabolism,Amino acid metabolism,ARG1
Molecular Weight:	25 kDa/34 kDa/35 kDa
Gene ID:	383
UniProt:	P05089
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

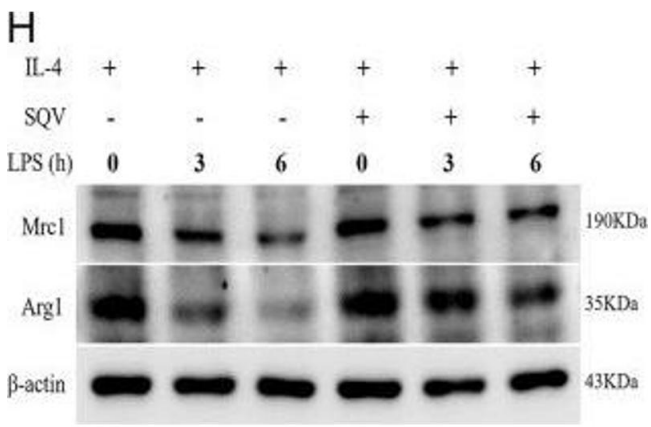
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:	Wan, Sun, Wu, Yu, Wang, Lin, Li, Wu, Sun: "Chi3l3: a potential key orchestrator of eosinophil recruitment in meningitis induced by Angiostrongylus cantonensis." in: **Journal of neuroinflammation**, Vol. 15, Issue 1, pp. 31, (2018) (PubMed). Jiang, He, Zhu, Liang, Wang, Lu, Ren, Yi, Xiao, Wang: "Endoplasmic reticulum stress-dependent ROS production mediates synovial myofibroblastic differentiation in the immobilization-induced rat knee joint contracture model." in: **Experimental cell research**, Vol. 369, Issue 2, pp. 325-334, (2018) (PubMed).

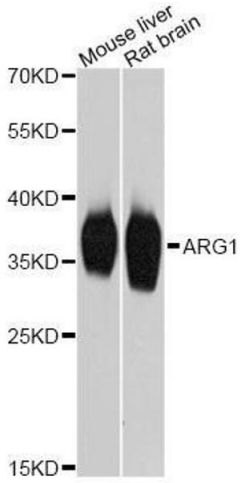
Images



Western Blotting

Image 1. SQV inhibits LPS-mediated proinflammatory state and M1 polarization of RAW 264.7 cells.AIL-6 and BTNF-α mRNA levels were detected in LPS-challenged RAW cells (6h) after a dose course of SQV treatment for 1h. *P<0.05, **P<0.01, ***P<0.001. Secretion levels of C IL-6, D TNF-α, and E MMP-9 were assayed by ELISA in the supernatant of LPS-challenged RAW cells (18h) following SQV treatment for 1h. **P<0.01, ***P<0.001 versus Con groups, #P<0.05, ###P<0.001 versus LPS (DMSO) group. RAW cells were pretreated with a dose course of SQV for 1h, and then subjected to LPS stimulation for the indicated time points. Relative mRNA levels of F M1 and G M2 macrophages' markers were measured by quantitative PCR. H RAW 264.7 cells were pretreated with IL-4 (10 ng/mL) for 24h to induce M2 polarization, and then M2 macrophages were treated with SQV for 1h prior to LPS stimulation at indicated times. Mrc1 and Arg1 protein expressions were measured by western blot. *P<0.05, **P<0.01, and ***P<0.001. All the results are from at least three independent experiments.

Data are represented as means±SEM. - figure provided by CiteAb. Source: PMID33431821



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ARG1 Antibody.

