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Arginase 1 (ARG1) Rabbit mAb

Catalog No.: A4923 Recombinant 37 Publications

Basic Information

Observed MW
40kDa

Calculated MW
35kDa

Category
Primary antibody

Applications
WB,IF-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC1164

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.

Recommended Dilutions

WB	1:5000 - 1:30000
IF-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
383

Swiss Prot
P05089

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
ARG1; arginase-1; Arginase 1 (ARG1)

Contact

400-999-6126

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Product Information

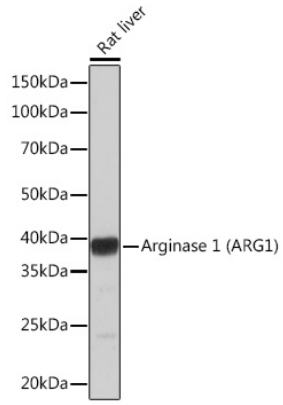
Source
Rabbit

Isotype
IgG

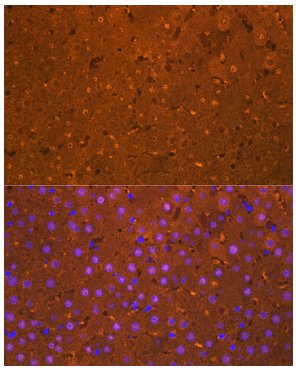
Purification
Affinity purification

Storage
Store at -20℃

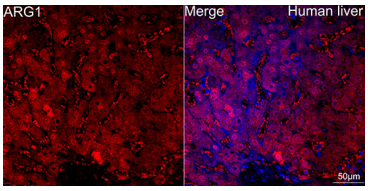
Validation Data



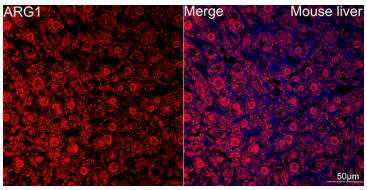
Western blot analysis of lysates from Rat liver, using Arginase 1 (Arginase 1 (ARG1)) Rabbit mAb (A4923) at 1:5000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Immunofluorescence analysis of paraffin-embedded rat liver using Arginase 1 (ARG1) Rabbit mAb (A4923) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Confocal imaging of paraffin-embedded human liver using Arginase 1 (ARG1) Rabbit mAb (A4923,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue).
Objective: 40x.



Confocal imaging of paraffin-embedded mouse liver using Arginase 1 (ARG1) Rabbit mAb (A4923,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue).
Objective: 40x.