

Anti-ARG1 Antibody [SY09-06]

ET1605-8



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IP
Molecular Wt:	Predicted band size: 35 kDa
Clone number:	SY09-06

Description: Arginase I (also designated liver-type arginase), which is expressed almost exclusively in the liver, catalyzes the conversion of arginine to ornithine and urea. The human arginase I gene, which maps to chromosome 6q23, encodes a 322 amino acid protein. Arginase I exists as a homotrimeric protein and contains a binuclear manganese cluster. Arginase II catalyzes the same reaction as arginase I, but differs in its tissue specificity and subcellular location. Specifically, arginase II localizes to the mitochondria. Arginase II is expressed in non-hepatic tissues, with the highest levels of expression in the kidneys, but, unlike arginase I, is not expressed in liver. The human arginase II gene, which maps to chromosome 14q24.1-q24.3, encodes a 354 amino acid protein. In addition, arginase II contains a putative amino-terminal mitochondrial localization sequence.

Immunogen: Synthetic peptide within human ARG1 aa 20-60.

Positive control: Mouse liver tissue lysate, human liver tissue lysate.

Subcellular location: Cytoplasm, Cytoplasmic granule.

Database links: SwissProt P05089 Human | Q61176 Mouse | P07824 Rat

Recommended Dilutions:

WB 1:2,000
IP Use at an assay dependent concentration.

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% SodiumAzide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Images

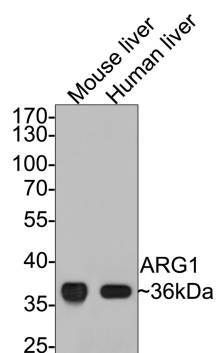


Fig1: Western blot analysis of ARG1 on different lysates with Rabbit anti-ARG1 antibody (ET1605-8) at 1/2,000 dilution.

Lane 1: Mouse liver tissue lysate

Lane 2: Human liver tissue lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 35 kDa

Observed band size: 36 kDa

Exposure time: 30 seconds;

10% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1605-8) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Chugh, D. et al. 2015. Alterations in Brain Inflammation, Synaptic Proteins, and Adult Hippocampal Neurogenesis during Epileptogenesis in Mice Lacking Synapsin2. *PLoS one*. 10: e0132366.
2. Teplova, I. et al. 2013. ATG proteins mediate efferocytosis and suppress inflammation in mammary involution. *Autophagy*. 9: 459-75.

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