

For Research Use Only

# Arginase-2 Recombinant antibody

Catalog Number: 84808-5-RR



## Basic Information

Catalog Number:

84808-5-RR

Size:

100ul, Concentration: 1000 µg/ml by 384

Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6609

GenBank Accession Number:

BC001350

GeneID (NCBI):

384

UNIPROT ID:

P78540

Full Name:

arginase, type II

Calculated MW:

39 kDa

Observed MW:

39 kDa

Purification Method:

Protein A purification

CloneNo.:

242362A9

Recommended Dilutions:

WB: 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : U-251 cells, mouse kidney tissue, K-562 cells, Caco-2 cells

## Background Information

Arginase 2 is composed of 354 amino acid residues, including an NH<sub>2</sub>-terminal presequence for mitochondrial targeting and import. In the mitochondria, ornithine generated by Arginase 2 will give rise to glutamate via ornithine aminotransferase (OAT). Glutamate participates in several transamination reactions, including forming α-ketoglutarate (αKG) that may enter the TCA cycle and increase cycle intermediates and flux. Arginase 1 is mainly expressed in hepatocytes, and mice with a disruption of Arginase 1 gene die soon after birth. Arginase 2 is poorly expressed in hepatocytes, and most highly expressed in kidney, prostate, and immune cells such as monocyte/macrophages. (PMID: 25234945, PMID: 27214549)

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

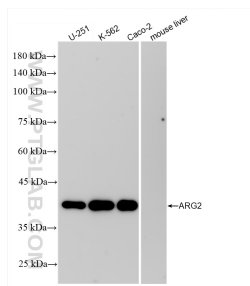
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84808-5-RR (Arginase-2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. Mouse liver tissue as a negative control.