

For Research Use Only

# Arginase-2 Recombinant antibody, PBS Only

Catalog Number: 84808-5-PBS



## Basic Information

<b>Catalog Number:</b> 84808-5-PBS	<b>GenBank Accession Number:</b> BC001350	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 384	<b>CloneNo.:</b> 242362A9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P78540	
<b>Isotype:</b> IgG	<b>Full Name:</b> arginase, type II	
<b>Immunogen Catalog Number:</b> AG6609	<b>Calculated MW:</b> 39 kDa	
	<b>Observed MW:</b> 39 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, mouse

## 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  $\alpha$ -ketoglutarate ( $\alpha$ KG) 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

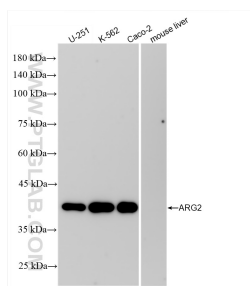
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:  
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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. This data was developed using the same antibody clone with 84808-5-PBS in a different storage buffer formulation.