

For Research Use Only

# Arginase-2 Polyclonal antibody

Catalog Number: 14825-1-AP

Featured Product

10 Publications



## Basic Information

### Catalog Number:

14825-1-AP

### Concentration:

700 ug/ml

### 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:

39-42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : Caco-2 cells, mouse kidney tissue, rat kidney tissue

IHC : human prostate cancer tissue, human kidney tissue

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## 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 (α-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)

## Notable Publications

Author	Pubmed ID	Journal	Application
Hagai Tavori	25183802	J Lipid Res	WB
Lu Gao	30889486	Biomed Pharmacother	WB
Katherine M Halloran	35098299	Biol Reprod	IHC

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

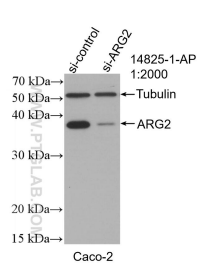
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

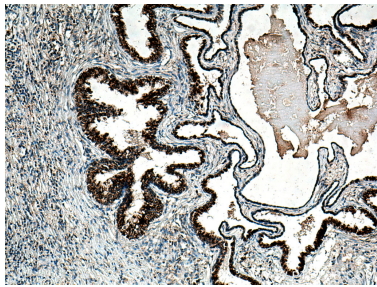
W: [ptgcn.com](http://ptgcn.com)

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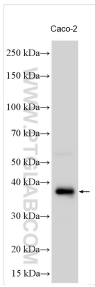
Selected Validation Data



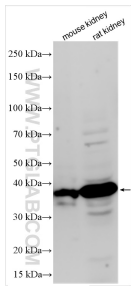
WB result of ARG2 antibody (14825-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Arginase-2 transfected Caco-2 cells.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 14825-1-AP (ARG2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Caco-2 cells were subjected to SDS PAGE followed by western blot with 14825-1-AP (Arginase-2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 14825-1-AP (Arginase-2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.