

For Research Use Only

# Arginase-2 Polyclonal antibody, PBS Only

Catalog Number: 14825-1-PBS

Featured Product



## Basic Information

Catalog Number:

14825-1-PBS

Concentration:

1 mg/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

## Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat

## 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

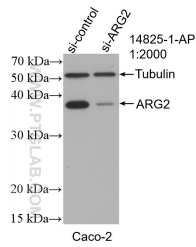
T: 4006900926

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

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

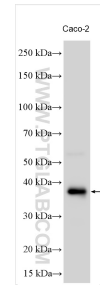
## Selected Validation Data



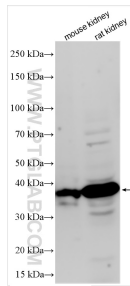
WB result of ARG2 antibody (14825-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Arginase-2 transfected Caco-2 cells. This data was developed using the same antibody clone with 14825-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 14825-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 14825-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 14825-1-PBS in a different storage buffer formulation.