

For Research Use Only

Arginase-2 Polyclonal antibody, PBS Only

Catalog Number: 14825-1-PBS

Featured Product



Basic Information

Catalog Number:

14825-1-PBS

Size:

100ug, Concentration: 1 mg/ml by 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:

39-42 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 NH₂-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)

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

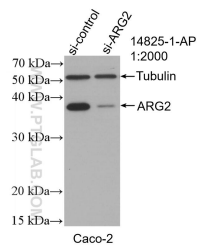
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

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

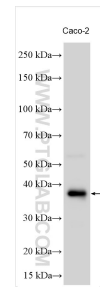
Selected Validation Data



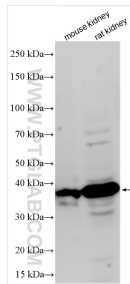
WB result of ARG2 antibody (14825-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Arginase-2 transfected Caco-2 cells. This data was developed using the same antibody clone with 14825-1-PBS in a different storage buffer formulation.



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.