

For Research Use Only

# CoraLite® Plus 488-conjugated Arginase-1 Polyclonal antibody

Catalog Number: CL488-16001

1 Publications



## Basic Information

Catalog Number:

CL488-16001

Concentration:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8595

GenBank Accession Number:

BC005321

GeneID (NCBI):

383

UNIPROT ID:

P05089

Full Name:

arginase, liver

Calculated MW:

236aa, 25 kDa; 322aa, 35 kDa

Observed MW:

35-36 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF-P 1:200-1:800

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, IF-P

Cited Applications:

IF

Species Specificity:

human, mouse, rat

Cited Species:

mouse

Positive Controls:

IF-P: human liver cancer tissue,

IF/ICC: HepG2 cells,

## Background Information

Arginase-1 (Liver arginase) belongs to the arginase family. ARG1 is a novel immunohistochemical marker of hepatocellular differentiation in fine needle aspiration cytology and a marker of hepatocytes and hepatocellular neoplasms. ARG1 is closely associated with alternative macrophage activation (PMID:12098359) and ARG1 has been shown to protect motor neurons from trophic factor deprivation and allow sensory neurons to overcome neurite outgrowth inhibition by myelin proteins (PMID: 20071539). It can exist as a homotrimer (PMID:16141327) and it has 3 isoforms produced by alternative splicing. Defects in ARG1 are the cause of argininemia (ARGIN). Deletion or TNF-mediated restriction of ARG1 unleashes the production of NO by NOS2, which is critical for pathogen control. (PMID:27117406). ARG1 has 3 isoforms with the molecular mass of 25, 35 and 36 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Luping Xue	39953545	Mol Brain	IF

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

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

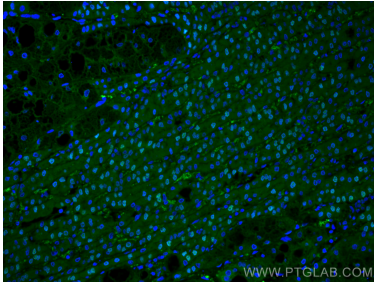
T: 4006900926

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

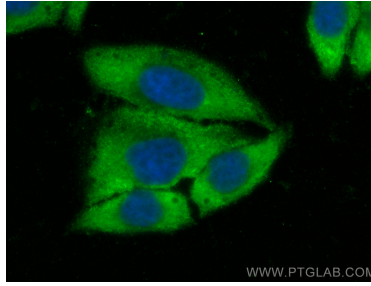
W: [ptgcn.com](http://ptgcn.com)

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

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CoraLite® Plus 488 ARG1 antibody (CL488-16001) at dilution of 1:400.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite® Plus 488 Arginase-1 antibody (CL488-16001) at dilution of 1:200.