

For Research Use Only

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



Catalog Number: CL488-16001

## Basic Information

<b>Catalog Number:</b> CL488-16001	<b>GenBank Accession Number:</b> BC005321	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 383	<b>Recommended Dilutions:</b> IF 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05089	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> arginase, liver	
<b>Immunogen Catalog Number:</b> AG8595	<b>Calculated MW:</b> 236aa, 25 kDa; 322aa, 35 kDa	
	<b>Observed MW:</b> 35-36 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF : human liver cancer tissue,
<b>Species Specificity:</b> human, mouse, rat	

## 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.

## 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, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

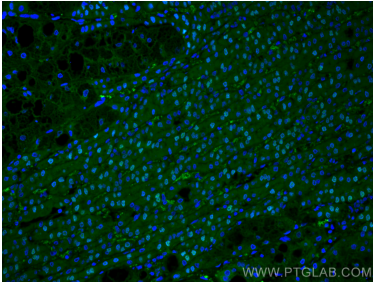
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W: [ptgcn.com](http://ptgcn.com)

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.