

For Research Use Only

CoraLite® Plus 488-conjugated Arginase-1 Polyclonal antibody

Catalog Number: CL488-16001



Basic Information

Catalog Number: CL488-16001	GenBank Accession Number: BC005321	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 383	Recommended Dilutions: IF-P 1:200-1:800 IF/ICC 1:50-1:500
Source: Rabbit	UNIPROT ID: P05089	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG	Full Name: arginase, liver	
Immunogen Catalog Number: AG8595	Calculated MW: 236aa,25 kDa; 322aa,35 kDa	
	Observed MW: 35-36 kDa	

Applications

Tested Applications: IF/ICC, IF-P	Positive Controls: IF-P : human liver cancer tissue, IF/ICC : HepG2 cells,
Species Specificity: 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.

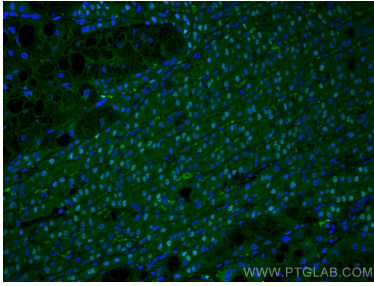
Storage

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

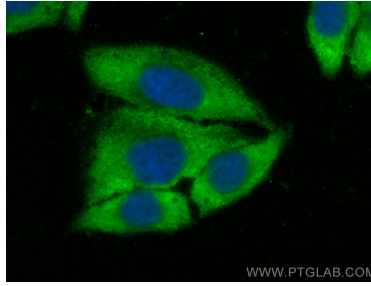
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



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.