

For Research Use Only

CoraLite®532-conjugated Arginase-1 Recombinant antibody

Catalog Number: CL532-82975



Basic Information

Catalog Number:	GenBank Accession Number:	Purification Method:
CL532-82975	BC005321	Protein A purification
Size:	GeneID (NCBI):	CloneNo.:
100ul , Concentration: 1000 ug/ml by Nanodrop;	383	4M7
Source:	UNIPROT ID:	Recommended Dilutions:
Rabbit	P05089	IF-P 1:50-1:500
Isotype:	Full Name:	IF/ICC 1:50-1:500
IgG	arginase, liver	Excitation/Emission maxima wavelengths:
Immunogen Catalog Number:	Calculated MW:	537 nm / 560 nm
AG8595	236aa,25 kDa; 322aa,35 kDa	
	Observed MW:	
	35-36 kDa	

Applications

Tested Applications:	Positive Controls:
IF/ICC, IF-P	IF-P : mouse liver tissue,
Species Specificity:	IF/ICC : HepG2 cells,
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 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, PMID:12098359). It can exist as a homotrimer and it has 3 isoforms produced by alternative splicing (PMID:16141327). 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 mainly expresses in neurons in a normal brain. The expression of ARG1 increases in microglia/macrophages and astrocytes early after CNS injuries. ARG1 has been regarded as a marker for beneficial microglia/macrophages and possesses antiinflammatory and tissue repair properties under various pathological conditions (PMID: 26538310, PMID: 31619589).

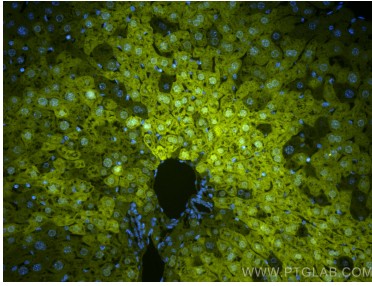
Storage

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

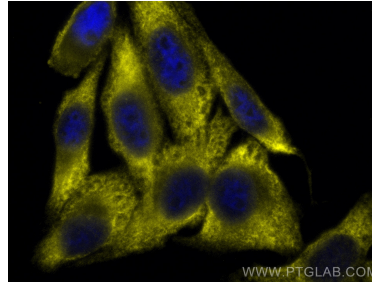
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using CoraLite®532 Arginase-1 antibody (CL532-82975, Clone: 4M7) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CoraLite®532 Arginase-1 antibody (CL532-82975, Clone: 4M7) at dilution of 1:200.