

For Research Use Only

CoraLite®594-conjugated Arginase-1 Monoclonal antibody

Catalog Number:CL594-66129

Featured Product

2 Publications



Basic Information

Catalog Number:

CL594-66129

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8810

GenBank Accession Number:

BC005321

GeneID (NCBI):

383

UNIPROT ID:

P05089

Full Name:

arginase, liver

Calculated MW:

236aa,25 kDa; 322aa,35 kDa

Purification Method:

Protein G purification

CloneNo.:

5D6D12

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC

Cited Applications:

IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

human

Positive Controls:

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 is a novel biomarker of post-stroke immune suppression(2016). The antibody is conjugated with CL594, Ex/Em 593 nm/614 nm.

Notable Publications

Author	Pubmed ID	Journal	Application
Ying Kong	34258169	Adv Sci (Weinh)	IF
Yanan Wang	38990194	ACS Nano	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, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

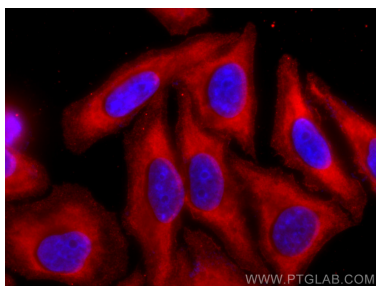
T: 4006900926

E: Proteintech-CN@ptglab.com

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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 (-20°C Methanol) fixed HepG2 cells using Coralite®594 Arginase-1 antibody (CL594-66129, Clone: 5D6D12) at dilution of 1:200.