

For Research Use Only

CoraLite®594-conjugated Arginase-1 Monoclonal antibody

Catalog Number:CL594-66129

Featured Product

3 Publications



Basic Information

Catalog Number:

CL594-66129

Concentration:

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, mouse

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
Zheng Luo	40106334	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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

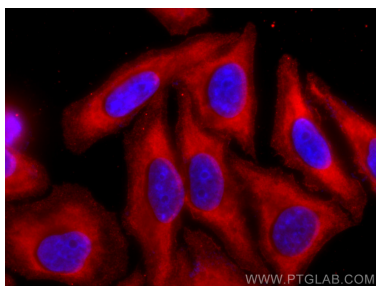
T: 4006900926

E: Proteintech-CN@ptglab.com

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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.