

For Research Use Only

CoraLite® Plus 488-conjugated AMACR/p504S Monoclonal antibody

Catalog Number:CL488-60240



Basic Information

Catalog Number:

CL488-60240

Size:

100ul , Concentration: 1000 ug/ml by
Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG8720

GenBank Accession Number:

BC009471

GeneID (NCBI):

23600

UNIPROT ID:

Q9UHK6

Full Name:

alpha-methylacyl-CoA racemase

Calculated MW:

382 aa, 42 kDa

Observed MW:

42 kDa

Purification Method:

Protein G purification

CloneNo.:

2H9B5

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima
wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

IF/ICC : A431 cells,

Background Information

AMACR(Alpha-methylacyl-CoA racemase) belongs to the CaiB/BaiF CoA-transferase family. It is a mitochondrial and peroxisomal enzyme that catalyzes the conversion of 2R stereoisomers of phytanic and pristanic acid to their S counterparts. AMACR has previously been shown to be a highly sensitive marker for colorectal and clinically localized prostate cancer (PCa). However, AMACR expression is down-regulated at the transcript and protein level in hormone-refractory metastatic PCa, suggesting a hormone-dependent expression of AMACR(PMID:12213712). It has 3 isoforms produced by alternative splicing. Defects in AMACR are the cause of alpha-methylacyl-CoA racemase deficiency (AMACRD) and congenital bile acid synthesis defect type 4 (CBAS4).

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

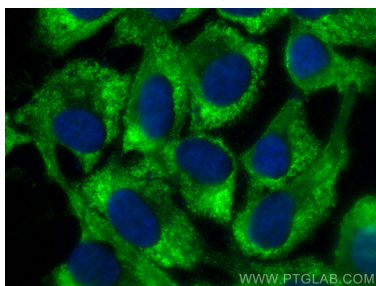
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
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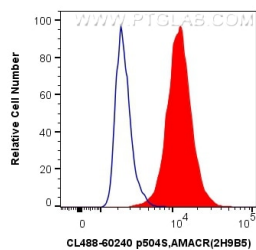
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W: ptglab.com

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 (-20°C Methanol) fixed A431 cells using Coralite® Plus 488 p504S,AMACR antibody (CL488-60240, Clone: 2H9B5) at dilution of 1:200.



1X10⁶ LNCaP cells were intracellularly stained with 0.4 ug Coralite® Plus 488 Anti-Human p504S,AMACR (CL488-60240, Clone:2H9B5) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).