

For Research Use Only

AMACR/p504S Recombinant monoclonal antibody

Catalog Number: 84891-8-RR



Basic Information

Catalog Number:

84891-8-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG4005

GenBank Accession Number:

NM_014324.6

GeneID (NCBI):

23600

UNIPROT ID:

Q9UHK6-1

Full Name:

alpha-methylacyl-CoA racemase

Calculated MW:

42 kDa

Observed MW:

20 kDa

Purification Method:

Protein A purification

CloneNo.:

250503G6

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB : HepG2 cells, MCF-7 cells, HEK-293 cells, LNCaP cells, DU 145 cells, NIH/3T3 cells, HSC-T6 cells

IF/ICC : DU 145 cells, LNCaP cells

Background Information

AMACR(Alpha-methyl acyl-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 and it can form a dimer of 70-75 kDa(PMID:21812041). Defects in AMACR are the cause of alpha-methyl acyl-CoA racemase deficiency (AMACRD) and congenital bile acid synthesis defect type 4 (CBAS4).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

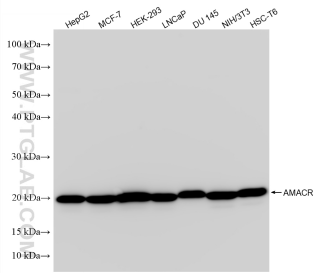
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

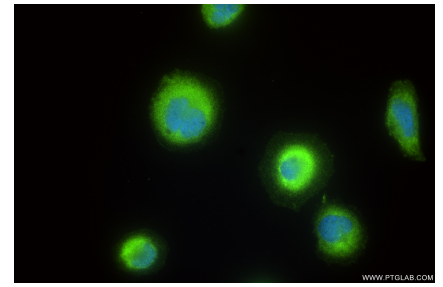
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

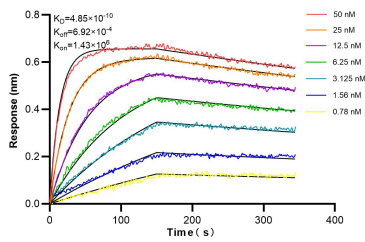


Various lysates were subjected to SDS PAGE followed by western blot with 84891-8-RR (AMACR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed LNCaP cells using AMACR antibody (84891-8-RR, Clone: 250503G6) at dilution of 1:1000 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed DU 145 cells using AMACR antibody (84891-8-RR, Clone: 250503G6) at dilution of 1:400 and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 84891-8-RR against Human AMACR were performed. The affinity constant is 0.485 nM.