

For Research Use Only

AMACR/p504S Recombinant monoclonal antibody

Catalog Number: 84891-8-RR



Basic Information

Catalog Number: 84891-8-RR	GenBank Accession Number: NM_014324.6	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 23600	CloneNo.: 250503G6
Source: Rabbit	UNIPROT ID: Q9UHK6-1	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: alpha-methylacyl-CoA racemase	
Immunogen Catalog Number: EG4005	Calculated MW: 42 kDa	
	Observed MW: 20 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Species Specificity: human, mouse	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

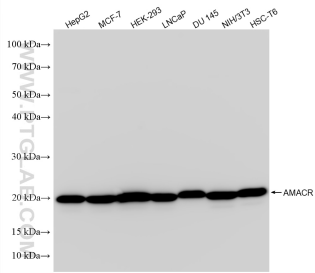
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1%BSA**

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
W: ptglab.com

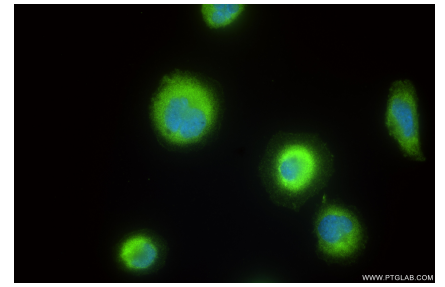
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Selected Validation Data

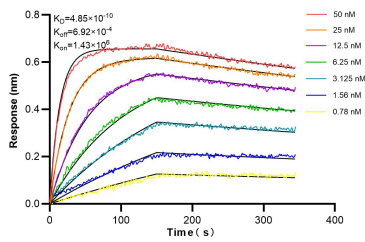


Various lysates were subjected to SDS PAGE followed by western blot with 84891-8-RR (AMACR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

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.