

For Research Use Only

AMACR Recombinant monoclonal antibody, PBS Only

Catalog Number: 84891-9-PBS



Basic Information

Catalog Number:	84891-9-PBS	GenBank Accession Number:	NM_014324.6	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	23600	CloneNo.:	250503C12
Isotype:	IgG	UNIPROT ID:	Q9UHK6-1		
Immunogen Catalog Number:	EG4005	Full Name:	alpha-methylacyl-CoA racemase		
		Calculated MW:	42 kDa		
		Observed MW:	42 kDa		

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human

Background Information

AMACR(Alpha-methyl acyl-CoA racemase) belongs to the CaiB/BaiF CoA-transferase family. A mitochondrial and peroxisomal enzyme 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 can form a dimer of 70-75 kDa(PMID:21812041). Defects in AMACR cause alpha-methyl acyl-CoA racemase deficiency (AMACRD) and congenital bile acid synthesis defect type 4 (CBAS4).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

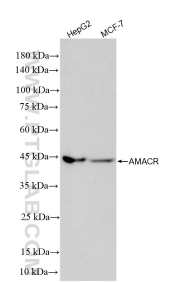
T: 4006900926

E: Proteintech-CN@ptglab.com

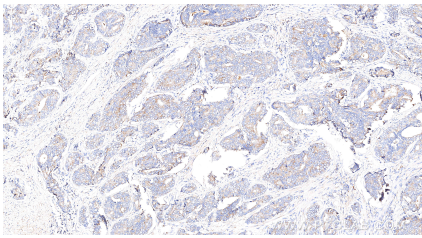
W: ptgcn.com

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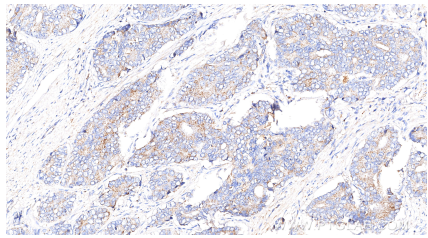
Selected Validation Data



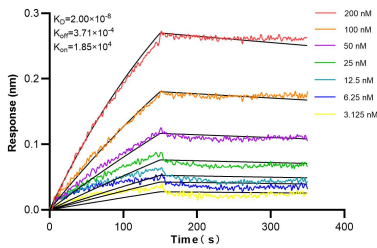
Various lysates were subjected to SDS PAGE followed by western blot with 84891-9-RR (AMACR antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84891-9-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 84891-9-RR (AMACR antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84891-9-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 84891-9-RR (AMACR antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84891-9-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84891-9-RR against Human AMACR were performed. The affinity constant is 20.0 nM.