

Basic Information

Catalog Number: 15918-1-AP	GenBank Accession Number: BC009471	Purification Method: Antigen affinity purification
Size: 260 µg/ml	GeneID (NCBI): 23600	Recommended Dilutions: WB 1:300-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q9UHK6	
Isotype: IgG	Full Name: alpha-methylacyl-CoA racemase	
Immunogen Catalog Number: AG8720	Calculated MW: 382 aa, 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : multi-cells, LNCaP cells
Cited Applications: WB,IF,IHC	IHC : human prostate cancer tissue, human renal cell carcinoma tissue
Species Specificity: human	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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

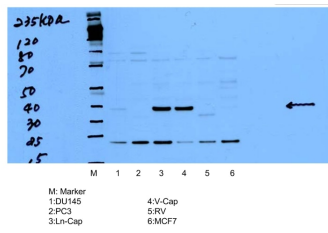
Notable Publications

Author	Pubmed ID	Journal	Application
Daijun Yang	32724384	Oncol Lett	IHC
Xiqi Ding	35238066	Andrologia	IHC
Zhao-Ming Xiao	34249931	Front Cell Dev Biol	IHC

Storage

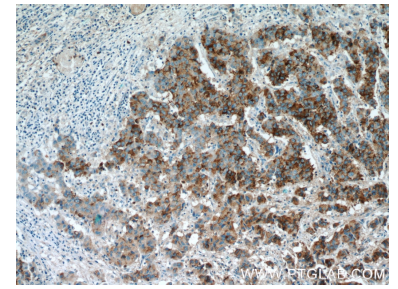
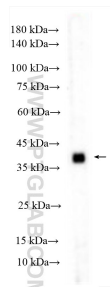
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

Selected Validation Data

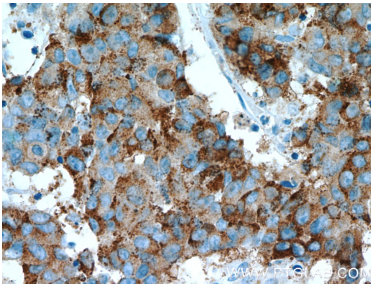


WB result of 15918-1-AP (anti-P504S,AMACR) from Dr. Soory.

LNCaP cells were subjected to SDS PAGE followed by western blot with 15918-1-AP (AMACR/p504S antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 15918-1-AP (AMACR/p504S antibody) at dilution of 1:50 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 15918-1-AP (AMACR/p504S antibody) at dilution of 1:50 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.