

AMACR/p504S Polyclonal antibody

Catalog Number: 15918-1-AP

5 Publications

Basic Information

Catalog Number:

15918-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

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:

44 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF, IHC

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

Positive Controls:

WB : HEK-293 cells, LNCaP cells, MCF-7 cells

IHC : human prostate cancer tissue, human renal cell carcinoma tissue

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).

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

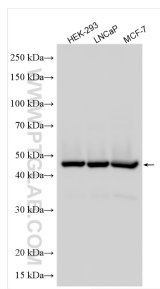
For technical support and original validation data for this product please contact:

T: 4006900926

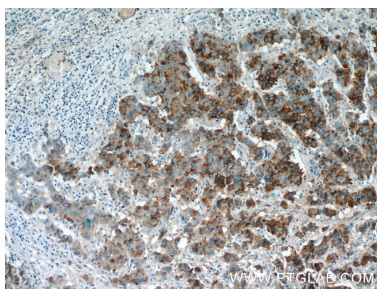
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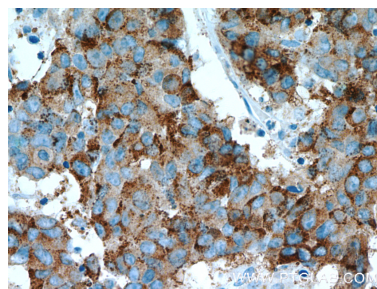
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15918-1-AP (AMACR/p504S antibody) at dilution of 1:2500 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.