

AMACR/p504S Polyclonal ANTIBODY

Catalog Number: 15918-1-AP

Basic Information

Catalog Number:
15918-1-AP

Size:
20 µg/150 µl

Source:
Rabbit

Isotype:
IgG

Purification Method:
Antigen affinity purification

Immunogen Catalog Number:
AG3720

GenBank Accession Number:
BC009471

GeneID (NCBI):
23600

Full Name:
alpha-methylacyl-CoA racemase

Calculated MW:
382aa, 42 kDa

Observed MW:
42 kDa

Recommended Dilutions:

WB 1:300-1:1000

IHC 1:20-1:200

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

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 : multi-cells; DU 145 cells, HEK-293 cells

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

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
--------	-----------	---------	-------------

Storage

Storage:

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

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

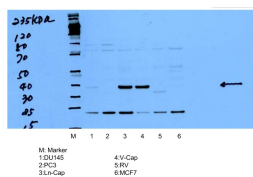
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

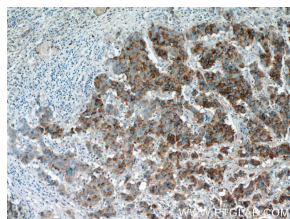
E: proteintech@ptglab.com
W: ptglab.com

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

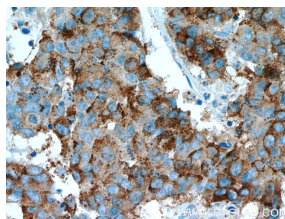
Selected Validation Data



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



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