

For Research Use Only

# p504S,AMACR Monoclonal antibody, PBS Only

Catalog Number:60240-1-PBS



## Basic Information

**Catalog Number:**

60240-1-PBS

**Size:**

100ug , Concentration: 1mg/ml by  
Nanodrop;

**Source:**

Mouse

**Isotype:**

IgG1

**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:**

42 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

2H9B5

## Applications

**Tested Applications:**

WB, IF/ICC, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## 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. 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 -80°C.

**Storage Buffer:**

PBS Only

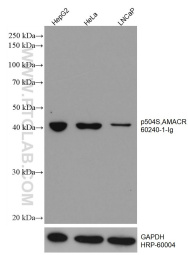
For technical support and original validation data for this product please contact:

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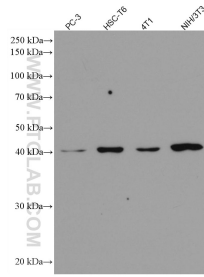
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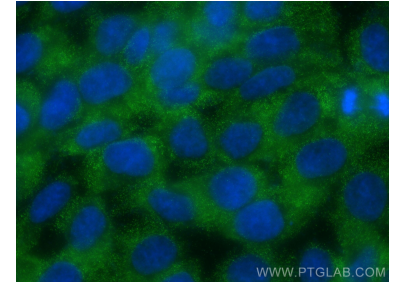
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60240-1-Ig (p504S,AMACR antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 60240-1-PBS in a different storage buffer formulation.



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Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using p504S,AMACR antibody (60240-1-Ig, Clone: 2H9B5 ) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 60240-1-PBS in a different storage buffer formulation.