

For Research Use Only

# AMACR/p504S Monoclonal antibody

Catalog Number: 60240-1-Ig



## Basic Information

<b>Catalog Number:</b> 60240-1-Ig	<b>GenBank Accession Number:</b> BC009471	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 930 ug/ml by Nanodrop and 500 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 23600	<b>CloneNo.:</b> 2H9B5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9UHK6	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> alpha-methylacyl-CoA racemase	
<b>Immunogen Catalog Number:</b> AG8720	<b>Calculated MW:</b> 382 aa, 42 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> HepG2 cells, PC-3 cells, HEK-293 cells, HeLa cells, LNCaP cells, HSC-T6 cells, 4T1 cells, NIH/3T3 cells
	<b>IF/ICC :</b> A431 cells,

## 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

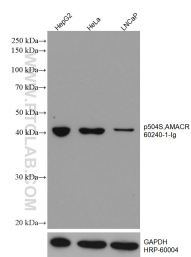
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

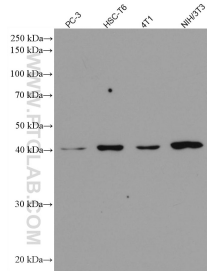
For technical support and original validation data for this product please contact:  
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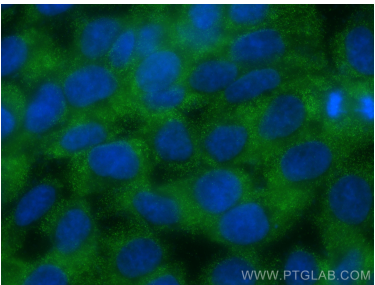
## Selected Validation Data



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.



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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).