

For Research Use Only

p504S,AMACR Monoclonal antibody

Catalog Number:60240-1-Ig



Basic Information

Catalog Number: 60240-1-Ig	GenBank Accession Number: BC009471	Purification Method: Protein G purification
Size: 930 µg/ml	GeneID (NCBI): 23600	CloneNo.: 2H9B5
Source: Mouse	UNIPROT ID: Q9UHK6	Recommended Dilutions: WB 1:1000-1:6000
Isotype: IgG1	Full Name: alpha-methylacyl-CoA racemase	
Immunogen Catalog Number: AG8720	Calculated MW: 382 aa, 42 kDa	
	Observed MW: 42 kDa	

Applications

Tested Applications: FC, WB, ELISA	Positive Controls: WB : HepG2 cells, PC-3 cells, HEK-293 cells, HeLa cells, LNCaP cells, HSC-T6 cells, 4T1 cells, NIH/3T3 cells
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 -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:

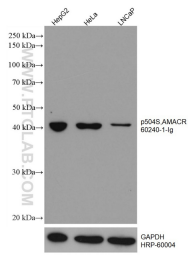
T: 4006900926

E: Proteintech-CN@ptglab.com

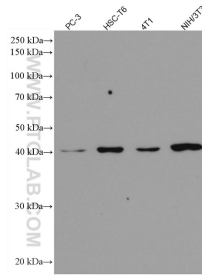
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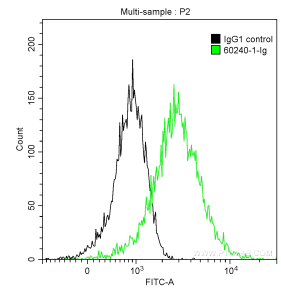
Selected Validation Data



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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1X10⁶ HepG2 cells were intracellularly stained with 0.5 ug Anti-Human p504S,AMACR (60240-1-Ig, Clone:2H9B5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.