For Research Use Only

p504S,AMACR Monoclonal antibody

Catalog Number:60240-1-Ig

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Basic Information

Catalog Number:
60240-1-Ig

Size:
150ul , Concentration: 930 μg/ml by Nanodrop and 500 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8720

GenBank Accession Number:
BC009471

GeneID (NCBI):
23600

Full Name:
alpha-methylacyl-CoA racemase

Calculated MW:
382 aa, 42 kDa

Observed MW:
42 kDa

Purification Method:
Protein G purification

CloneNo.:
2H9B5

Recommended Dilutions:
WB 1:1000-1:6000

Applications

Tested Applications:
FC, WB, ELISA

Species Specificity:
human, mouse

Positive Controls:

WB : HepG2 cells, PC-3 cells, HEK-293 cells, HeLa cells, LNCaP cells, HSC-T6 cells, 4T1 cells, NIH/3T3 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).

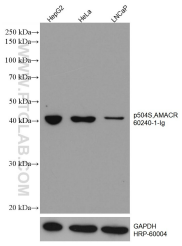
Storage

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

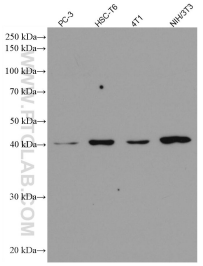
*** 20ul sizes contain 0.1% BSA

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

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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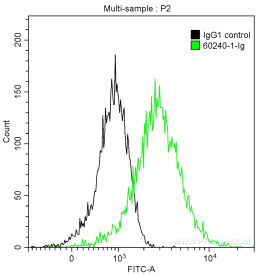

1X10^6 HepG2 cells were intracellularly stained with 0.5 ug Anti-Human p504S,AMACR (60240-1-Ig, Clone:2H9B5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.