

ARG56016
anti-AMACR / p504S antibody [13H4]Package: 250 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [Rabbit Monoclonal 13H4] recognizes AMACR / p504S
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Monoclonal
Clone	Rabbit Monoclonal 13H4
Isotype	IgG
Target Name	AMACR / p504S
Species	Human
Immunogen	Full length Human AMACR recombinant protein.
Conjugation	Un-conjugated
Alternate Names	AMACR; Alpha-Methylacyl-CoA Racemase; P504S; RACE; 2-Methylacyl-CoA Racemase; EC 5.1.99.4; AMACRD; CBAS4; RM

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:100
	WB	Assay-dependent

Application Note Antigen retrieval for IHC-P: Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 min.

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

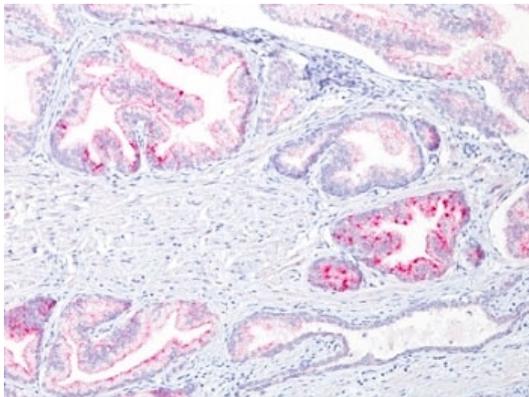
Form	Liquid
Purification	Unpurified high titer supernatant
Buffer	IMDM, 0.05% Sodium azide and 5% FBS
Preservative	0.05% Sodium azide
Stabilizer	5% FBS
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

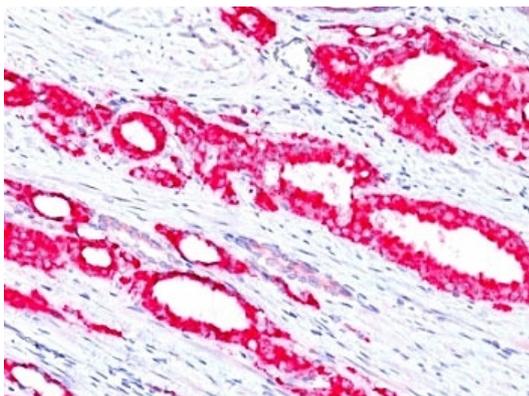
Database links	GeneID: 23600 Human Swiss-port # Q9UHK6 Human
Gene Symbol	AMACR
Gene Full Name	alpha-methylacyl-CoA racemase
Background	This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this locus localize to both mitochondria and peroxisomes. Mutations in this gene may be associated with adult-onset sensorimotor neuropathy, pigmentary retinopathy, and adrenomyeloneuropathy due to defects in bile acid synthesis. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the upstream neighboring C1QTNF3 (C1q and tumor necrosis factor related protein 3) gene.
Function	Acts only on coenzyme A thioesters, not on free fatty acids, and accepts as substrates a wide range of alpha-methylacyl-CoAs, including pristanoyl-CoA, trihydroxycoprostanoyl-CoA (an intermediate in bile acid synthesis), and arylpropionic acids like the anti-inflammatory drug ibuprofen (2-(4-isobutylphenyl)propionic acid) but neither 3-methyl-branched nor linear-chain acyl-CoAs.
Calculated Mw	42 kDa
PTM	Acetylation
Cellular Localization	Mitochondrion, Peroxisome

Images



ARG56016 anti-AMACR / p504S antibody [13H4] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human prostate carcinoma stained with ARG56016 anti-AMACR / p504S antibody [13H4].



ARG56016 anti-AMACR / p504S antibody [13H4] IHC-P image

Immunohistochemistry: Formalin-fixed, paraffin-embedded Human prostate carcinoma stained with ARG56016 anti-AMACR / p504S antibody [13H4].