

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

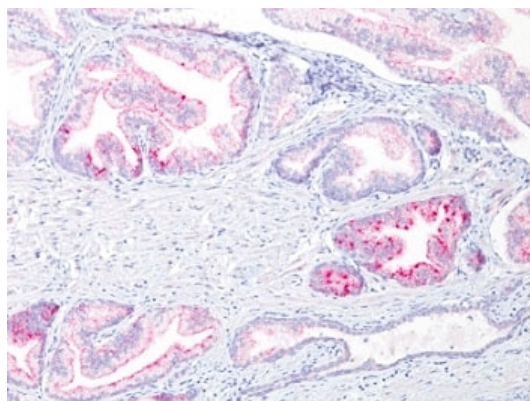
Properties

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.

Bioinformation

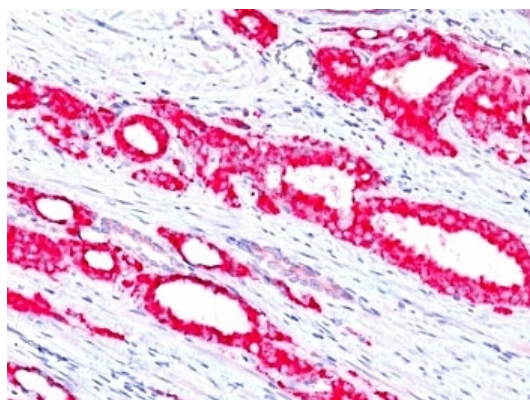
Database links	GeneID: 23600 Human Swiss-port # Q9UHK6 Human
Gene Symbol	AMACR
Gene Full Name	alpha-methylacyl-CoA racemase
Background	This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers 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].