

Product datasheet

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ARG66761 anti-AMACR / p504S antibody [SQab20194]

Package: 100 μl Store at: -20°C

Summary

Product Description Recombinant Rabbit Monoclonal antibody [SQab20194] recognizes AMACR / p504S

Tested Reactivity Hu

Tested Application IHC-P

Host Rabbit

Clonality Monoclonal
Clone SQab20194

Isotype IgG

Target Name AMACR / p504S

Species Human

Immunogen Full-length recombinant Human AMACR / p504S.

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	1:100 - 1:200
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Liver tissue.	

Properties

Form Liquid

Purification Purification with Protein A.

Buffer PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.

Preservative 0.01% Sodium azide

Stabilizer 40% Glycerol and 0.05% BSA

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. 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

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

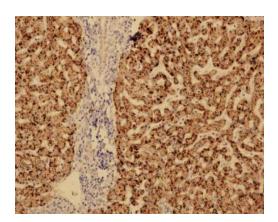
(2-(4-isobutylphenyl)propionic acid) but neither 3-methyl-branched nor linear-chain acyl-CoAs.

Calculated Mw 42 kDa

PTM Acetylation

Cellular Localization Mitochondrion, Peroxisome

Images



ARG66761 anti-AMACR / p504S antibody [SQab20194] IHC-P image

Immunohistochemistry: Formalin/PFA-fixed and paraffin-embedded Human liver tissue. Antigen Retrieval: Heat mediation was performed in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG66761 anti-AMACR / p504S antibody [SQab20194] at 18°C - 25°C for 30 minutes.