



Anti-AMACR (full length) polyclonal antibody (DPAB-DC1123)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
Immunogen	AMACR (AAH09471, 1 a.a. ~ 198 a.a) full-length recombinant protein with GST tag. The sequence is MALQGISVMELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGA AVLRRLLCKRSDVLLPFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCRLAGHDINY LALSGGRNSMFKFFSVENSEIESVGSTSRTEHVGWWSTFLYDLQDSRWGIHGCSNRTPVLRAADQRTWTKV
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	AMACR alpha-methylacyl-CoA racemase [Homo sapiens (human)]
Official Symbol	AMACR
Synonyms	AMACR; alpha-methylacyl-CoA racemase; RM; RACE; CBAS4; AMACRD; 2-methylacyl-CoA racemase;
Entrez Gene ID	23600
Protein Refseq	NP_001161067
UniProt ID	Q9UHK6
Chromosome Location	5p13
Pathway	Beta-oxidation of pristanoyl-CoA; Bile acid biosynthesis, cholesterol => Bile acid biosynthesis, cholesterol => Metabolism
Function	alpha-methylacyl-CoA racemase activity; receptor binding;