

ACAD-9 Polyclonal Antibody

Catalog No :	YT0070
Reactivity :	Human;Mouse;Rat
Applications :	IHC;IF;ELISA
Target :	ACAD-9
Gene Name :	ACAD9
Protein Name :	Acyl-CoA dehydrogenase family member 9 mitochondrial
Human Gene Id :	28976
Human Swiss Prot No :	Q9H845
Mouse Gene Id :	229211
Mouse Swiss Prot No :	Q8JZN5
Immunogen :	Synthesized peptide derived from ACAD-9 . at AA range: 530-610
Specificity :	ACAD-9 Polyclonal Antibody detects endogenous levels of ACAD-9 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 69kD

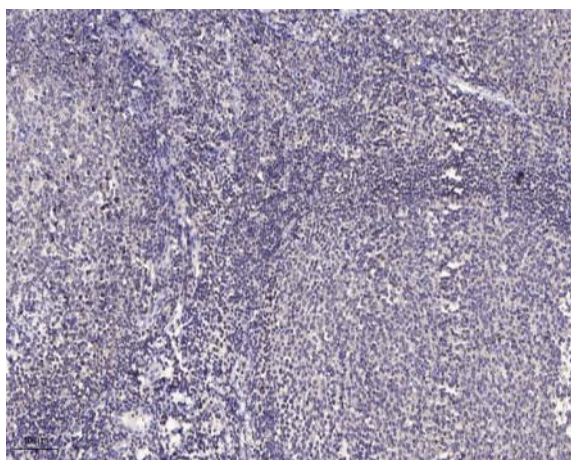
Background : This gene encodes a member of the acyl-CoA dehydrogenase family. Members of this family of proteins localize to the mitochondria and catalyze the rate-limiting step in the beta-oxidation of fatty acyl-CoA. The encoded protein is specifically active toward palmitoyl-CoA and long-chain unsaturated substrates. Mutations in this gene cause acyl-CoA dehydrogenase family member type 9 deficiency. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Mar 2010],

Function : cofactor:FAD.,disease:Defects in ACAD9 are a cause of acyl-CoA dehydrogenase family member type 9 deficiency (ACAD9 deficiency) [MIM:611126]. ACAD9 deficiency patients present with episodic liver dysfunction during otherwise mild illnesses or cardiomyopathy, along with chronic neurologic dysfunction.,function:Has a dehydrogenase activity on palmitoyl-CoA (C16:0) and stearoyl-CoA (C18:0). It is three times more active on palmitoyl-CoA than on stearoyl-CoA. Has little activity on octanoyl-CoA (C8:0), butyryl-CoA (C4:0) or isovaleryl-CoA (5:0).,similarity:Belongs to the acyl-CoA dehydrogenase family.,tissue specificity:Ubiquitously expressed in most normal human tissues and cancer cell lines with high level of expression in heart, skeletal muscles, brain, kidney and liver.,

Subcellular Location : Mitochondrion inner membrane ; Peripheral membrane protein ; Matrix side . Essentially associated with membranes. .

Expression : Ubiquitously expressed in most normal human tissues and cancer cell lines with high level of expression in heart, skeletal muscles, brain, kidney and liver (PubMed:12359260). In the cerebellum uniquely expressed in the granular layer (at protein level) (PubMed:21237683).

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).