

#9796 Store at -20C

ACAD9 Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	69	Rabbit	#Q9H845	28976

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	ACAD9 Antibody recognizes endogenous levels of total ACAD9 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val512 of human ACAD9 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	The mitochondrial flavoenzymes acyl-CoA dehydrogenases (ACADs) catalyze the α,β dehydrogenation of acyl-CoA esters (1). One of these enzymes, ACAD9, is essential for assembly of oxidative phosphorylation complex I (2). Studies have shown that ACAD9 gene mutations cause Complex I deficiency (2,3).	
Background References	<ol style="list-style-type: none"> 1. He, M. et al. (2007) <i>Am J Hum Genet</i> 81, 87-103. 2. Nouws, J. et al. (2010) <i>Cell Metab</i> 12, 283-94. 3. Haack, T.B. et al. (2010) <i>Nat Genet</i> 42, 1131-4. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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