

#9796 Store at -20°C

# ACAD9 Antibody



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**For Research Use Only. Not For Use In Diagnostic Procedures.**

| Applications<br>W<br>Endogenous | Species Cross-Reactivity*<br>H, M, R, Mk | Molecular Wt.<br>69 kDa | Source<br>Rabbit** |
|---------------------------------|--|-------------------------|--------------------|
|---------------------------------|--|-------------------------|--------------------|

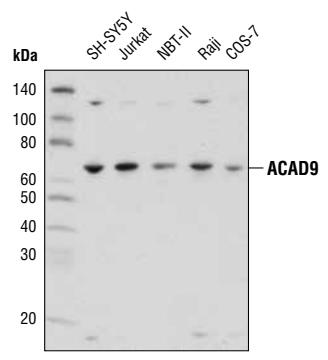
**Background:** The mitochondrial flavoenzymes acyl-CoA dehydrogenases (ACADs) catalyze the  $\alpha,\beta$  dehydrogenation of acyl-CoA esters (1). One of these enzymes, ACAD9, is essential for assembly of oxidative phosphorylation complex I (2). Studies have shown that ACAD9 gene mutations cause Complex I deficiency (2,3).

**Specificity/Sensitivity:** ACAD9 Antibody recognizes endogenous levels of total ACAD9 protein.

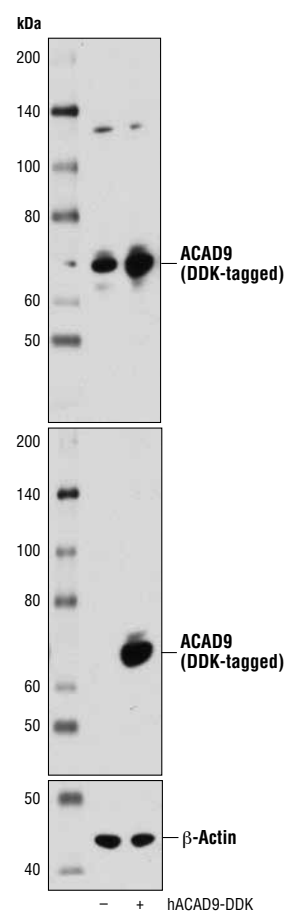
**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val512 of human ACAD9 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

- (1) He, M. et al. (2007) *Am J Hum Genet* 81, 87-103.
- (2) Nouws, J. et al. (2010) *Cell Metab* 12, 283-94.
- (3) Haack, T.B. et al. (2010) *Nat Genet* 42, 1131-4.



Western blot analysis of extracts from various cell lines using ACAD9 Antibody.



Western blot analysis of extracts from 293 cells, mock transfected (-) or transfected with a construct expressing DDK-tagged full-length human ACAD9 (hACAD9-DDK; +), using ACAD9 Antibody (upper), DYKDDDDK Tag (9A3) Mouse mAb #8146 (middle), or  $\beta$ -Actin (D6A8) Rabbit mAb #8457 (lower).

Entrez-Gene ID #28976  
Swiss-Prot Acc. #Q9H845

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA and 50% glycerol. Store at  $-20^{\circ}\text{C}$ .  
*Do not aliquot the antibody.*

**\*Species cross-reactivity is determined by western blot.**

**\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.**

**Recommended Antibody Dilutions:**

Western blotting 1:1000

**For product specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).**

**Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended complementary products.**

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

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**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.