

ACAT2 (E1L8V) Rabbit mAb



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New 10/13

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Applications W, IP Endogenous	Species Cross-Reactivity* H, Mk	Molecular Wt. 41 kDa	Isotype Rabbit IgG**
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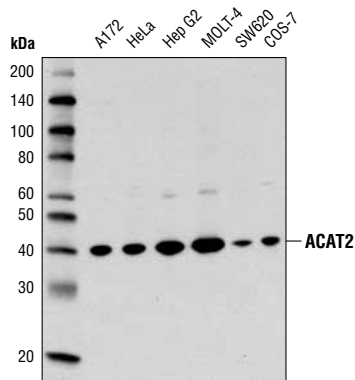
Background: Acetyl-CoA acetyltransferase 2 (ACAT2), also known as cytosolic acetoacetyl-CoA thiolase, plays a role in regulating lipid metabolism (1). It catalyzes the synthesis of acetoacetyl-CoA from two acetyl-CoA molecules, which is later converted into steroids (2).

Specificity/Sensitivity: ACAT2 (E1L8V) Rabbit mAb recognizes endogenous levels of total ACAT2 protein.

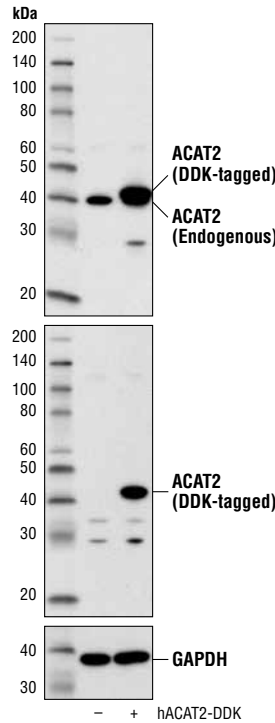
Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val216 of human ACAT2 protein.

Background References:

- (1) Shintani, S. et al. (1999) *Genetics* 152, 743-54.
- (2) Middleton, B. (1974) *Biochem J* 139, 109-21.



Western blot analysis of extracts from various cell lines using ACAT2 (E1L8V) Rabbit mAb.



Western blot analysis of extracts from 293 cells, mock transfected (-) or transfected with a construct expressing DDK-tagged full-length human ACAT2 (hACAT2-DDK; +), using ACAT2 (E1L8V) Rabbit mAb (upper), DYKDDDDK Tag Antibody #2368 (middle), or GAPDH (D16H11) XP® Rabbit mAb #5174 (lower).

Entrez Gene ID #39
UniProt ID #Q9BWD1

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

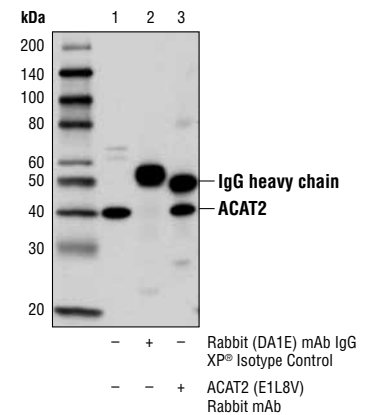
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For product specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.



Immunoprecipitation of ACAT2 from Hep G2 cell extracts using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or ACAT2 (E1L8V) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using ACAT2 (E1L8V) Rabbit mAb.

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 AI—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.