

# FDFT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14561b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P37268</a>
<b>Other Accession</b>	<a href="#">NP_004453.3</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB34520
<b>Calculated MW</b>	48115
<b>Antigen Region</b>	332-361

## Additional Information

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<b>Gene ID</b>	2222
<b>Other Names</b>	Squalene synthase, SQS, SS, FPP:FPP farnesyltransferase, Farnesyl-diphosphate farnesyltransferase, FDFT1
<b>Target/Specificity</b>	This FDFT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 332-361 amino acids from the C-terminal region of human FDFT1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	FDFT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	FDFT1
<b>Function</b>	Catalyzes the condensation of 2 farnesyl pyrophosphate (FPP) moieties to form squalene. Proceeds in two distinct steps. In the first half-reaction, two molecules of FPP react to form the stable presqualene diphosphate

intermediate (PSQPP), with concomitant release of a proton and a molecule of inorganic diphosphate. In the second half-reaction, PSQPP undergoes heterolysis, isomerization, and reduction with NADPH or NADH to form squalene. It is the first committed enzyme of the sterol biosynthesis pathway.

**Cellular Location** Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q02769}; Multi-pass membrane protein

**Tissue Location** Widely expressed..

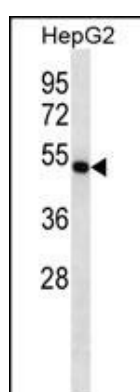
## Background

This gene encodes a membrane-associated enzyme located at a branch point in the mevalonate pathway. The encoded protein is the first specific enzyme in cholesterol biosynthesis, catalyzing the dimerization of two molecules of farnesyl diphosphate in a two-step reaction to form squalene.

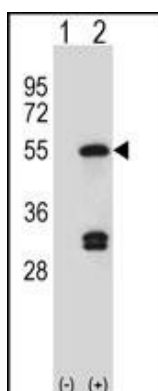
## References

Chalasani, N., et al. *Gastroenterology* 139(5):1567-1576(2010)  
Bailey, S.D., et al. *Diabetes Care* 33(10):2250-2253(2010)  
Kovanen, L., et al. *Alcohol Alcohol.* 45(4):303-311(2010)  
Lipkin, S.M., et al. *Cancer Prev Res (Phila)* 3(5):597-603(2010)  
Sjoholm, L.K., et al. *J Circadian Rhythms* 8, 1 (2010) :

## Images



FDFT1 Antibody (C-term) (Cat. #AP14561b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the FDFT1 antibody detected the FDFT1 protein (arrow).



Western blot analysis of FDFT1 (arrow) using rabbit polyclonal FDFT1 Antibody (C-term) (Cat. #AP14561b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FDFT1 gene.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.