

**FDFT1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14561b**

## Specification

---

### FDFT1 Antibody (C-term) - Product Information

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

### FDFT1 Antibody (C-term) - Additional Information

**Gene ID** 2222

#### Other Names

Squalene synthase, SQS, SS, FPP:FPP farnesyltransferase, Farnesyl-diphosphate farnesyltransferase, FDFT1

#### Target/Specificity

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.

#### Dilution

WB~~1:1000

#### Format

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.

#### Storage

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.

#### Precautions

FDFT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

### FDFT1 Antibody (C-term) - Protein Information

**Name** FDFT1

**Function** 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

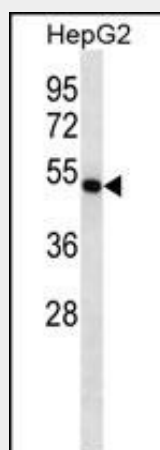
Widely expressed..

### FDFT1 Antibody (C-term) - Protocols

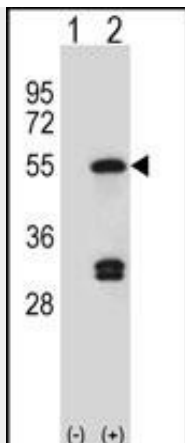
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### FDFT1 Antibody (C-term) - 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.

#### **FDFT1 Antibody (C-term) - 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.

#### **FDFT1 Antibody (C-term) - 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) :