

**FDFT1 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2417A****Specification**

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**FDFT1 Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P37268</a>
Reactivity	<b>Human, Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>48115</b>
Antigen Region	<b>1-30</b>

**FDFT1 Antibody (N-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 1-30 amino acids from the N-terminal region of human FDFT1.

**Dilution**WB~~1:1000  
IHC-P~~1:50~100**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**FDFT1 Antibody (N-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

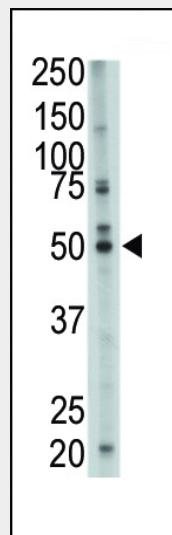
Widely expressed..

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

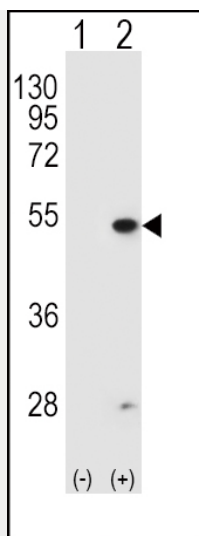
Provided below are standard protocols that you may find useful for product applications.

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

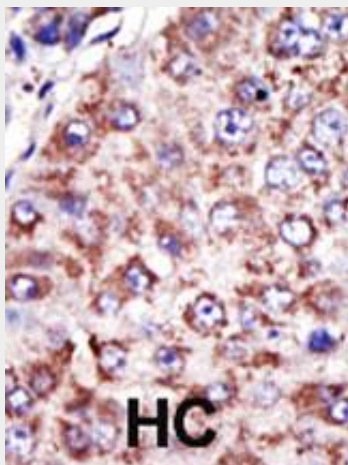
### FDFT1 Antibody (N-term) - Images



The anti-FDFT1 Pab (Cat. #AP2417a) is used in Western blot to detect FDFT1 in mouse cerebellum tissue lysate.



Western blot analysis of FDFT1 (arrow) using rabbit polyclonal FDFT1 Antibody (E11) (Cat. #AP2417a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FDFT1 gene.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **FDFT1 Antibody (N-term) - Background**

FDFT1 catalyzes the first step in the cholesterol biosynthetic pathway, the conversion of trans-farnesyldiphosphate to squalene. The loss of promoter activity and response to sterols for FDFT1 is localized to a 69-bp section positioned 131 bp 5-prime to the transcription start site. Sequence analysis of this region shows that it contains a sterol regulatory element-1 (SRE1) previously identified in other sterol regulated genes and 2 putative NF1 binding sites.

#### **FDFT1 Antibody (N-term) - References**

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).  
Soltis, D.A., et al., Arch. Biochem. Biophys. 316(2):713-723 (1995).  
Jiang, G., et al., J. Biol. Chem. 268(17):12818-12824 (1993).  
Robinson, G.W., et al., Mol. Cell. Biol. 13(5):2706-2717 (1993).  
Summers, C., et al., Gene 136 (1-2Che), 185-192 (1993).

#### **FDFT1 Antibody (N-term) - Citations**

- [Characterization of farnesyl diphosphate farnesyl transferase 1 \(FDFT1\) expression in cancer.](#)