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FDFT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14561b

Specification

FDFT1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	P37268
Other Accession	NP_004453.3
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

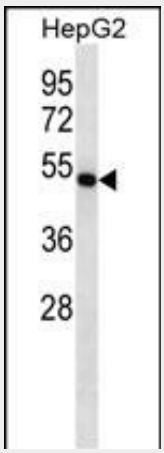
Tissue Location
Widely expressed..

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 Cytomety
- 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).

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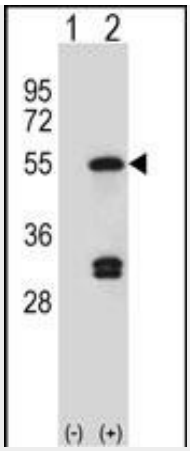

Western blot analysis of FDFT1 (arrow) using rabbit polyclonal FDFT1 Antibody (C-term) (Cat. #AP14561b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FDFT1 gene.

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) :