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# FDFT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5537

## Product Information

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| **Application** | WB |
| **Primary Accession** | P37268 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 48115 |
| **Isotype** | Rabbit IgG |
| **Antigen Source** | HUMAN |

## Additional Information

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| **Gene ID** | 2222 |
| **Antigen Region** | 332-361 |
| **Other Names** | Squalene synthase, SQS, SS, FPP:FPP farnesyltransferase, Farnesyl-diphosphate farnesyltransferase, FDFT1 |
| **Dilution** | WB~~1:1000 |
| **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. |
| **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. |

## Protein Information

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| **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 |

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| | 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.. |

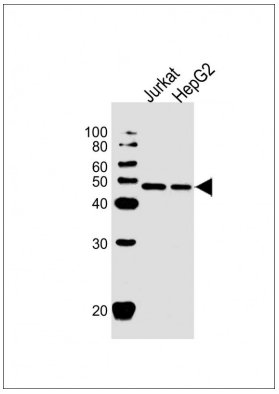
## Background

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




All lanes : Anti-FDFT1 Antibody (C-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.


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