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FDFT1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5537

Product Information

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

Additional Information

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

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..

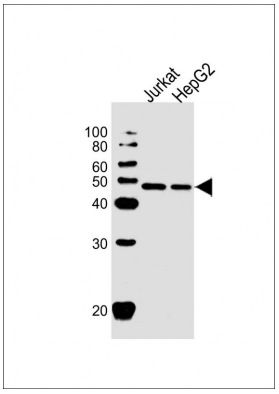
Background

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.