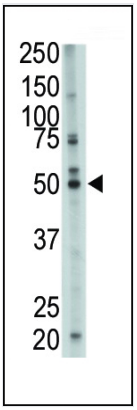
FDFT1 Antibody – Rabbit Polyclonal

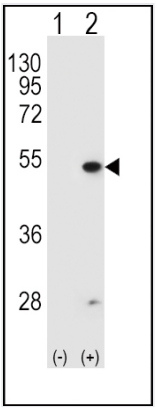
PRODUCT OVERVIEW

Product Name	FDFT1, Polyclonal Antibody
Full Product Name	FDFT1 Antibody (N-term)
Product Gene Name	anti-FDFT1 antibody
Product Synonym Names	Squalene synthase; SQS; SS; FPP:FPP farnesyltransferase; Farnesyl-diphosphate farnesyltransferase; FDFT1
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human, mouse
Form/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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 2 (lot specific)
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.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	FDFT1 peptide (MBS9224668) is used for blocking the activity of FDFT1 antibody (MBS9211522)
Molecular Weight	48115
Immunogen Sequence Positions	1-30
OMIM	184420
3D Structure	ModBase 3D Structure for P37268
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-FDFT1 antibody	Cancer; Cardiovascular; Metabolism; Neuroscience
Applications Tested/Suitable for anti-FDFT1 antibody	Western Blot (WB), ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-FDFT1 antibody	WB~~1:1000
Related Product Information for anti-FDFT1 antibody	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.

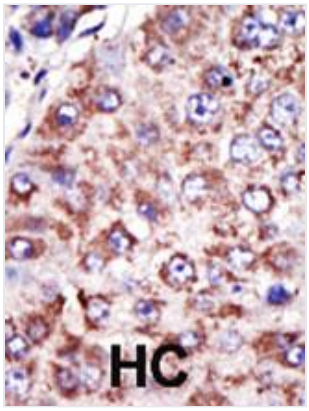
Product References and Citations for anti-FDFT1 antibody	Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Soltis, D.A., et al., Arch. Biochem. Biophys. 316(2):713-723 (1995). Jiang, G., et al., J. Biol. Chem. 268(17):12818-12824 (1993). Robinson, G.W., et al., Mol. Cell. Biol. 13(5):2706-2717 (1993). Summers, C., et al., Gene 136 (1-2Che), 185-192 (1993).
Other Notes	Small volumes of anti-FDFT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FDFT1 purchase	MBS9211522 is an antibody targeting FDFT1. Also known as FDFT1 Antibody (N-term). Reactive in Human, mouse. Host: Rabbit.



Western Blot (WB) of anti-FDFT1 antibody
The anti-FDFT1 Pab is used in Western blot to detect FDFT1 in mouse cerebellum tissue lysate.



Western Blot (WB) of anti-FDFT1 antibody
Western blot analysis of FDFT1 (arrow) using rabbit polyclonal FDFT1 Antibody (E11). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FDFT1 gene.



Immunohistochemistry (IHC) of anti-FDFT1 antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FDFT1. It may not necessarily be applicable to this product.

NCBI GI #	67089147
NCBI GeneID	2222
NCBI Accession #	NP_004453.3
UniProt Primary Accession #	P37268
UniProt Secondary Accession #	Q96GT0; B3KQ95; B4DJE5; B4DT56; B7Z1J3

UniProt Related Accession #	P37268
GenBank Nucleotide #	NM_004462.4
NCBI Official Full Name	squalene synthase isoform 1
NCBI Official Synonym Full Names	farnesyl-diphosphate farnesyltransferase 1
NCBI Official Symbol	FDFT1
NCBI Official Synonym Symbols	SS; SQS; DGPT; ERG9
UniProt Protein Name	Squalene synthase
UniProt Synonym Protein Names	FPP:FPP farnesyltransferase; Farnesyl-diphosphate farnesyltransferase
UniProt Gene Name	FDFT1
UniProt Synonym Gene Names	SQS; SS
UniProt Entry Name	FDFT_HUMAN
NCBI Protein Information	squalene synthase
NCBI Summary for FDFT1	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. [provided by RefSeq, Jul 2008]
UniProt Comments for FDFT1	FDFT1: 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. [provided by RefSeq, Jul 2008] Protein type: Transferase; Membrane protein, integral; Oxidoreductase; Membrane protein, multi-pass; Endoplasmic reticulum; Lipid Metabolism - steroid biosynthesis; EC 2.5.1.21 Chromosomal Location of Human Ortholog: 8p23.1-p22 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane Molecular Function: farnesyl-diphosphate farnesyltransferase activity; oxidoreductase activity Biological Process: isoprenoid biosynthetic process; farnesyl diphosphate metabolic process; cellular lipid metabolic process; cholesterol biosynthetic process; steroid biosynthetic process
Research Articles on FDFT1	**1.** Up-regulation of SQS promotes metastasis of lung cancer by enhancing tumor necrosis factor-alpha receptor 1 and nuclear factor-kappaB activation and matrix metallopeptidase 1 expression.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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