Farnesyl Diphosphate Farnesyl Transferase 1 (FDFT1) ELISA Kit for Horse

PRODUCT OVERVIEW

Product Name	Farnesyl Diphosphate Farnesyl transferase 1 (FDFT1), ELISA Kit
Full Product Name	Horse Farnesyl Diphosphate Farnesyl transferase 1 ELISA Kit
Product Gene Name	FDFT1 elisa kit
Species Reactivity	Horse
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	48,115 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (11660190..11696818). Location: 8p23.1-p22
3D Structure	ModBase 3D Structure for Q6IAX1
Related Product Information for FDFT1 elisa kit	MBS007446 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Farnesyl Diphosphate Farnesyl transferase 1 (FDFT1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing FDFT1. The ELISA analytical biochemical technique of the MBS007446 kit is based on FDFT1 antibody-FDFT1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect FDFT1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, FDFT1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of FDFT1 elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	48146183
NCBI GeneID	2222
NCBI Accession #	CAG33314.1
UniProt Primary Accession #	Q6IAX1
UniProt Related Accession #	P37268
NCBI Official Full Name	FDFT1
NCBI Official Synonym Full Names	farnesyl-diphosphate farnesyltransferase 1
NCBI Official Symbol	FDFT1
NCBI Official Synonym Symbols	SS; SQS; DGPT; ERG9
UniProt Protein Name	FDFT1 protein
UniProt Gene Name	FDFT1
UniProt Entry Name	Q6IAX1_HUMAN
NCBI Protein Information	squalene synthase; squalene synthetase; FPP:FPP farnesyltransferase; presqualene-di-diphosphate 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: Membrane protein, integral; Lipid Metabolism - steroid biosynthesis; Oxidoreductase; EC 2.5.1.21; Endoplasmic reticulum; Membrane protein, multi-pass; Transferase 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.** FDFT1 and its encoded enzyme, squalene synthase, may play an important role in prostate cancer development and its aggressive phenotypes.
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