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## FDFT1 Recombinant Monoclonal Antibody

Product Code	CSB-RA909932A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P37268
Immunogen	A synthesized peptide derived from human FDFT1
Species Reactivity	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	endoplasmic reticulum, endoplasmic reticulum membrane, integral component of membrane, farnesyl-diphosphate farnesyltransferase activity, squalene synthase activity, cholesterol biosynthetic process, farnesyl diphosphate metabolic process, regulation of cholesterol biosynthetic process, regulation of lipid metabolic process, steroid biosynthetic process
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	
•	Monoclonal
Product Type	Recombinant Antibody
Product Type Immunogen Species	Monocional Recombinant Antibody Homo sapiens (Human)
Product Type Immunogen Species Research Area	Monocional Recombinant Antibody Homo sapiens (Human) Neuroscience; Cancer; Cardiovascular; Metabolism
Product Type Immunogen Species Research Area Gene Names	Monocional Recombinant Antibody Homo sapiens (Human) Neuroscience; Cancer; Cardiovascular; Metabolism FDFT1

Image



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IHC image of CSB-RA909932A0HU diluted at 1:100 and staining in paraffin-embedded human testis tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA909932A0HU diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

The development of the FDFT1 recombinant monoclonal antibody involves four steps: first, sequencing the FDFT1 monoclonal antibody gene, then cloning the gene into a plasmid vector, followed by the transfection of the recombinant vector into a host cell line, and final purification of the FDFT1 recombinant monoclonal antibody from the cell culture supernatant using affinity chromatography. The FDFT1 monoclonal antibody is derived from FDFT1 antibody-producing hybridomas, with a synthesized peptide derived from human FDFT1 used as the immunogen. This FDFT1 recombinant monoclonal antibody is highly recommended for use in ELISA, WB, and IHC applications for the detection of human FDFT1 protein.

The FDFT1 protein, also known as squalene synthase, plays a key role in cholesterol biosynthesis in cells. Specifically, FDFT1 catalyzes the synthesis of squalene from farnesyl pyrophosphate and is the first committed step in the cholesterol biosynthesis pathway. Squalene is then converted into cholesterol through a series of enzymatic reactions. FDFT1 is primarily found in the endoplasmic reticulum of cells and is highly expressed in liver and steroidogenic tissues. In addition to its role in cholesterol biosynthesis, FDFT1 has also been implicated in the regulation of cell proliferation and survival.