10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-FDFT1 Monoclonal Antibody
Catalog # ABO14774

Specification

Anti-FDFT1 Monoclonal Antibody - Product Information

Application	**WB, IHC, IF, ICC, IP**
Primary Accession	P37268
Host	**Rabbit**
Isotype	**Rabbit IgG**
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Format	**Liquid**

Description
Anti-FDFT1 Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human, Mouse, Rat.

Anti-FDFT1 Monoclonal Antibody - Additional Information

Gene ID 2222

Other Names
Squalene synthase, SQS, SS, 2.5.1.21, FPP:FPP farnesyltransferase, Farnesyl-diphosphate farnesyltransferase, Farnesyl-diphosphate farnesyltransferase 1 {ECO:0000312|HGNC:HGNC:3629}, FDFT1

Application Details
WB 1:500-1:1000
IHC 1:100-1:500
ICC/IF 1:50-1:200
IP 1:50

Contents
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen
A synthesized peptide derived from human FDFT1 Critical branch point enzyme of isoprenoid biosynthesis that is thought to regulate the flux of isoprene intermediates through the sterol pathway.

Purification
Affinity-chromatography

Storage	**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

Anti-FDFT1 Monoclonal Antibody - 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

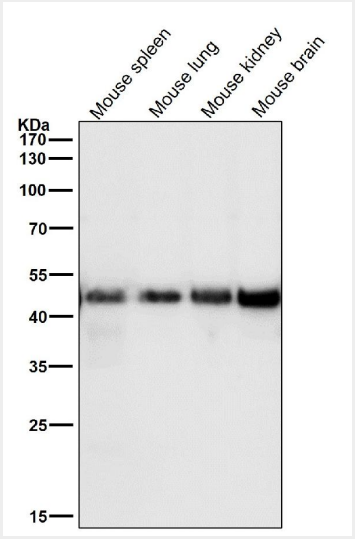
Tissue Location
Widely expressed..

Anti-FDFT1 Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-FDFT1 Monoclonal Antibody - Images



All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.

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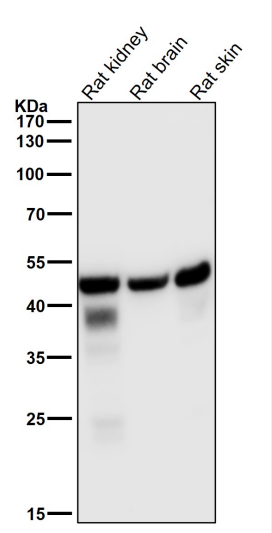
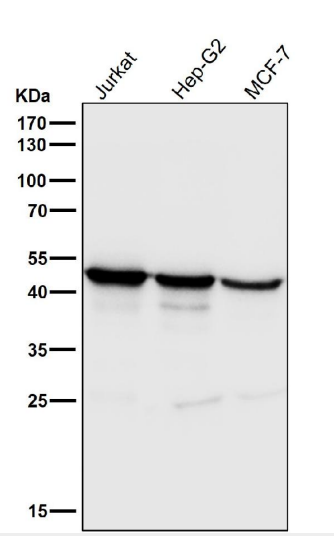


All lanes use the Antibody at 1:3K dilution for 1 hour at room temperature.



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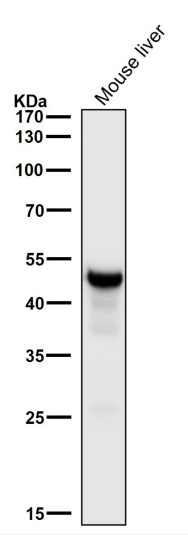

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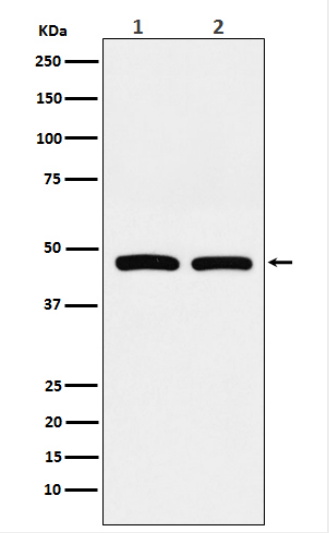

Western blot analysis of FDFT1 expression in (1) HepG2 cell lysate; (2) RAW264.7 cell lysate.