
Product Name: KD-Validated FDFT1 Mouse Monoclonal Antibody**Catalog #: KVA00693**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,500-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 48.1kDa

Antigen Information

Gene Name	FDFT1 FDFT1; Farnesyl-Diphosphate Farnesyltransferase 1; SQS; Squalene Synthase; FPP:FPP
Alternative Names	Farnesyltransferase; EC 2.5.1.21; SS; Farnesyl-Diphosphate Farnesyltransferase; Presqualene-Di-Diphosphate Synthase; Squalene Synthetase; DGPT; ERG9; SQSD
Gene ID	2222.0
SwissProt ID	P37268
Immunogen	Recombinant protein of human FDFT1

Background

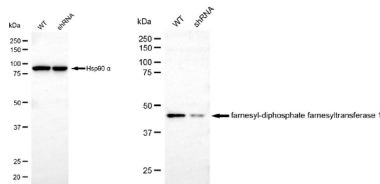
This gene encodes a membrane-associated enzyme located at a branch point in the mevalonate pathway. The encoded protein is the first specific enzyme in cholesterol biosynthesis, catalyzing the dimerization of two molecules of farnesyl diphosphate in a

two-step reaction to form squalene. [provided by RefSeq, Jul 2008]

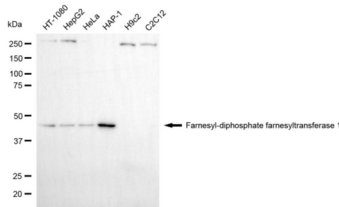
Research Area

Cardiovascular, Neuroscience, Cancer, Metabolism

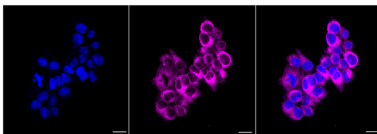
Image Data



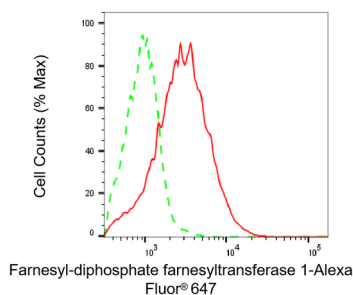
Western blotting analysis using farnesyl-diphosphate farnesyltransferase 1 antibody (KVA00693). Farnesyl-diphosphate farnesyltransferase 1 expression in wild type (WT) and farnesyl-diphosphate farnesyltransferase 1 (FDF1) shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with farnesyl-diphosphate farnesyltransferase 1 antibody (KVA00693, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using farnesyl-diphosphate farnesyltransferase 1 antibody (KVA00693). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with farnesyl-diphosphate farnesyltransferase 1 antibody (KVA00693, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with Farnesyl-diphosphate farnesyltransferase 1 antibody (KVA00693, 1:1,000). Nuclei were stained blue with DAPI; Farnesyl-diphosphate farnesyltransferase 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of Farnesyl-diphosphate farnesyltransferase 1 expression in HAP-1 cells using Farnesyl-diphosphate farnesyltransferase 1 antibody (KVA00693, 1:2,000). Green, isotype control; red, Farnesyl-diphosphate farnesyltransferase 1.