[KD Validated] Anti-FDFT1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021691

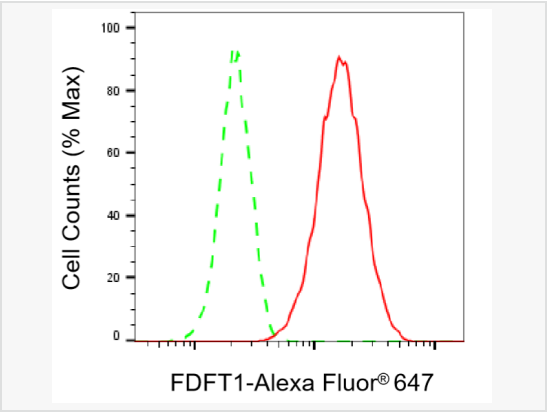
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	85C54A49
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human FDFT1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-FDFT1 Rabbit mAb [85C54A49] is for research use only and not for use in diagnostic or therapeutic procedures.

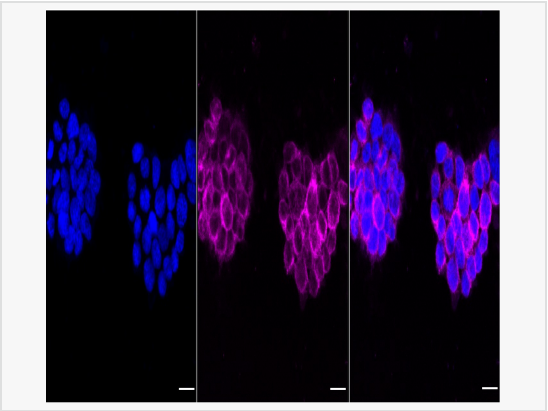
Protein Information

Synonyms	FDFT1; Farnesyl-Diphosphate Farnesyltransferase 1; SQS; Squalene Synthase; FPP:FPP Farnesyltransferase; EC 2.5.1.21; SS; Farnesyl-Diphosphate Farnesyltransferase; Presqualene-Di-Diphosphate Synthase; Squalene Synthetase; DGPT; ERG9; SQSD.
Calculated MW	Calculated MW: 48 kDa; Observed MW: 45 kDa
Uniprot ID	P37268
Gene ID	2222
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]
Cellular Location	Endoplasmic reticulum membrane.

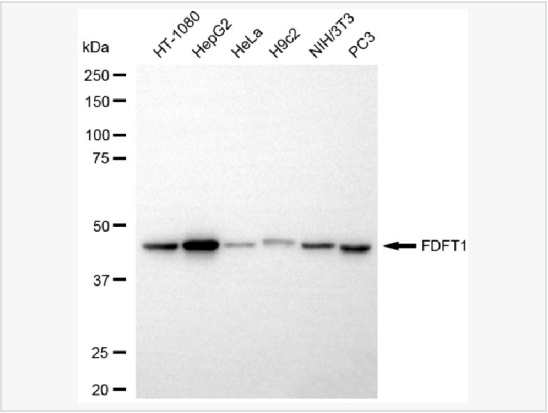
Validation Images



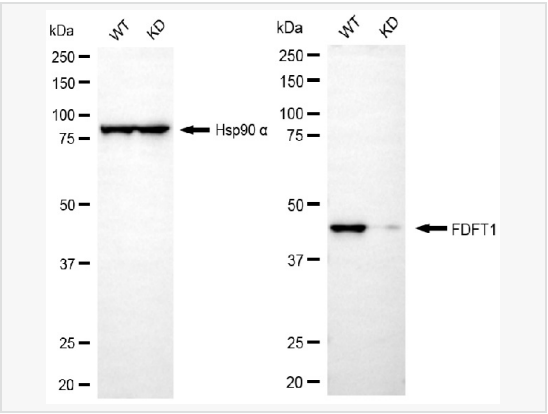
Flow cytometric analysis of FDFT1 expression in HAP-1 cells using FDFT1 antibody (R021691, 1:2,000). Green, isotype control; red, FDFT1.



Immunocytochemical staining of HAP-1 cells with FDFT1 antibody (R021691, 1:1,000). Nuclei were stained blue with DAPI; FDFT1 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.



Western blotting analysis using FDFT1 antibody (R021691). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with FDFT1 antibody (R021691, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using FDFT1 antibody (R021691). FDFT1 expression in wild-type (WT) and FDFT1 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with FDFT1 antibody (R021691, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.