

For Research Use Only

FDFT1 Recombinant antibody

Catalog Number: 83020-1-RR



Basic Information

Catalog Number:	83020-1-RR	GenBank Accession Number:	BC029641	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI):	2222	CloneNo.:	230362C10
Source:	Rabbit	UNIPROT ID:	P37268	Recommended Dilutions:	WB 1:5000-1:50000 IHC 1:500-1:2000 IF/ICC 1:250-1:1000
Isotype:	IgG	Full Name:	farnesyl-diphosphate farnesyltransferase 1		
Immunogen Catalog Number:	AG3743	Calculated MW:	417 aa, 48 kDa		
		Observed MW:	48 kDa		

Applications

Tested Applications:	WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:	
Species Specificity:	human, mouse	WB :	L02 cells, T-47D cells, SH-SY5Y cells, HepG2 cells, mouse testis tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		IHC :	human ovary cancer tissue,
		IF/ICC :	L02 cells, HepG2 cells

Background Information

SQS (Squalene synthase), also known as Farnesyl-diphosphate farnesyltransferase 1 (FDFT1) is a gene that encodes the membrane-associated enzyme squalene synthase, which is the first specific enzyme in cholesterol biosynthesis. FDFT1 is highly expressed in liver, lung, prostate, breast, ovary, bladder, cervix, thyroid, and esophageal cancers, while in colorectal, colon, testicular, uterine, pancreas, and kidney tumors, its expression is downregulated (PMID: 35093030). FDFT1 is a key downstream target of the fasting response and may be involved in CRC cell glucose metabolism (PMID: 32313017).

Storage

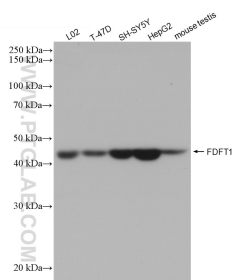
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

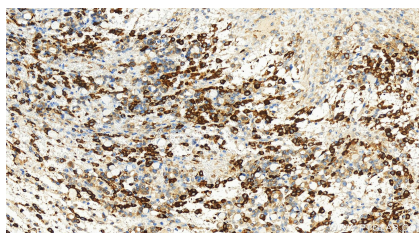
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

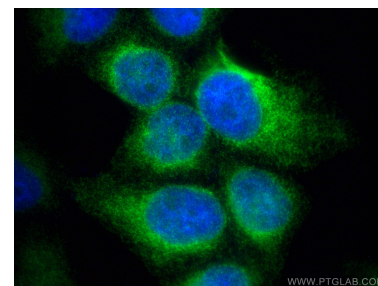
Selected Validation Data



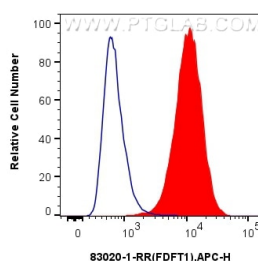
Various lysates were subjected to SDS PAGE followed by western blot with 83020-1-RR (FDT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



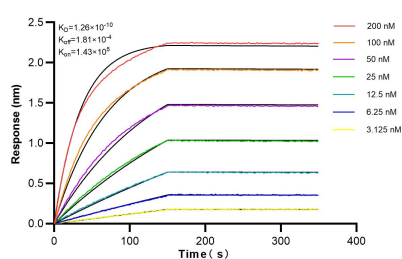
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 83020-1-RR (FDT1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed L02 cells using FDT1 antibody (83020-1-RR, Clone: 230362C10) at dilution of 1:500 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



1×10^6 U2OS cells were intracellularly stained with 0.25 μ g Anti-Human FDT1 (83020-1-RR, Clone:230362C10) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83020-1-RR against Human FDT1 were performed. The affinity constant is 0.126 nM.