

For Research Use Only

# FDFT1 Polyclonal antibody

Catalog Number: 13128-1-AP

Featured Product

17 Publications



## Basic Information

### Catalog Number:

13128-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3743

### GenBank Accession Number:

BC029641

### GeneID (NCBI):

2222

### UNIPROT ID:

P37268

### Full Name:

farnesyl-diphosphate  
farnesyltransferase 1

### Calculated MW:

417 aa, 48 kDa

### Observed MW:

48 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HepG2 cells, T-47D cells

IP : COLO 320 cells,

IHC : human ovary cancer tissue,

IF/ICC : LO2 cells,

## Background Information

Farnesyl-diphosphate farnesyltransferase 1 (FDFT1), also known as SQS, 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).

## Notable Publications

Author	Pubmed ID	Journal	Application
Jiaojiao Lu	32877662	Arch Biochem Biophys	WB, IHC
Douglas E Biancur	33152323	Cell Metab	WB
Xiao-Yi Lu	33177714	Nature	WB

## 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

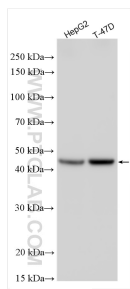
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

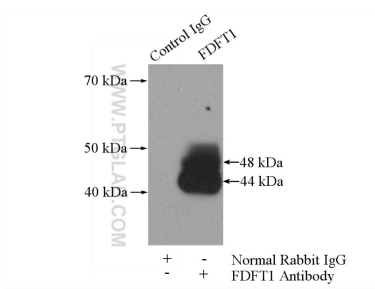
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

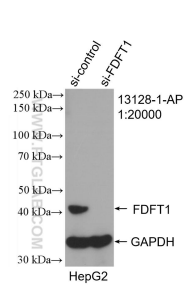
## Selected Validation Data



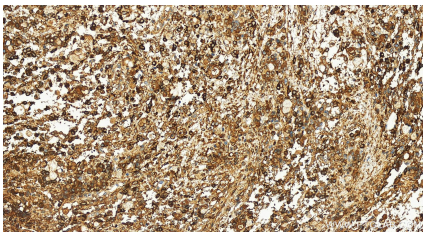
Various lysates were subjected to SDS PAGE followed by western blot with 13128-1-AP (FDFT1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



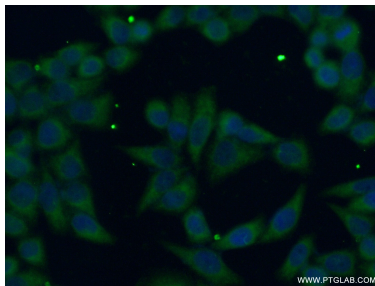
IP result of anti-FDFT1 (IP:13128-1-AP, 4ug; Detection:13128-1-AP 1:500) with COLO 320 cells lysate 2400ug.



WB result of FDFT1 antibody (13128-1-AP; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDFT1 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 13128-1-AP (FDFT1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed L02 cells using 13128-1-AP (FDFT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).