

For Research Use Only

# FDPS Polyclonal antibody

Catalog Number: 16129-1-AP

Featured Product

15 Publications



## Basic Information

### Catalog Number:

16129-1-AP

### Size:

150ul, Concentration: 400 ug/ml by Nanodrop and 227 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9115

### GenBank Accession Number:

BC010004

### GeneID (NCBI):

2224

### UNIPROT ID:

P14324

### Full Name:

farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase)

### Calculated MW:

419 aa, 48 kDa

### Observed MW:

39-41 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

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

## Applications

### Tested Applications:

WB, IP, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB: HepG2 cells, A431 cells, human cerebellum tissue, rat liver tissue

IP: mouse liver tissue,

## Background Information

FPPS (also known as FDPS) is a key enzyme in isoprenoid biosynthesis which catalyzes the formation of farnesyl diphosphate (FPP), a precursor for several classes of essential metabolites including sterols, dolichols, carotenoids, and ubiquinones. The expression of FPPS was elevated in prostate tumor cell lines, indicating its potential role in prostate cancer progression.

## Notable Publications

Author	Pubmed ID	Journal	Application
Caitlyn Makins	27834682	J Biol Chem	WB
Jian Yang	23180723	Cardiovasc Res	WB, IHC
Dongpu Dai	29864496	Gene	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

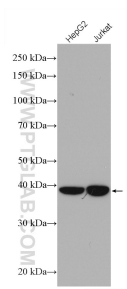
For technical support and original validation data for this product please contact:

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

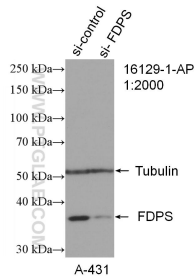
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

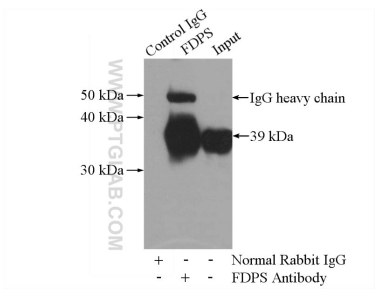
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 16129-1-AP (FDPS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



WB result of FDPS antibody (16129-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FDPS transfected A431 cells.



IP result of anti-FDPS (IP:16129-1-AP, 4ug; Detection:16129-1-AP 1:1000) with mouse liver tissue lysate 4000ug.