

# CoraLite® Plus 488-conjugated FDPS

## Monoclonal antibody

Catalog Number: **CL488-67972**

### Basic Information

Catalog Number:

CL488-67972

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG9247

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:

38-39 kDa

Purification Method:

Protein A purification

CloneNo.:

3B8A7

Recommended Dilutions:

WB 1:1000-1:8000

Excitation/Emission maxima  
wavelengths:

493 nm / 522 nm

### Applications

Tested Applications:

WB, FC (Intra)

Species Specificity:

human

Positive Controls:

WB : HeLa cells, Jurkat cells

### 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.

### Storage

Storage:

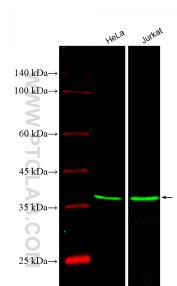
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

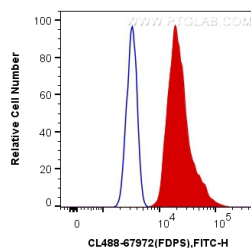
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL488-67972 (FDPS antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4  $\mu$ g CoraLite® Plus 488 Anti-Human FDPS (CL488-67972, Clone:3B8A7) (red), or 0.4  $\mu$ g Mouse IgG2b Isotype Control (CL488-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).