FDPS
Polyclonal ANTIBODY

Catalog Number: 16129-1-AP

Basic Information

Catalog Number: 16129-1-AP
Size: 34 μg/150 μl
Source: Rabbit
Isotype: IgG
Affinity Purification Method: Antigen affinity purification
Immunogen Catalog Number: AG9115

GenBank Accession Number: BCO10004
GenID (NCBI): 2224
Full Name: Farnesyl diphosphate synthase (farnesyl diphosphate synthetase, dimethylallyltransferase, geranyltransferase)
Calculated MW: 419kDa, 41 kDa
Observed MW: 39-41 kDa

Recommended Dilutions:
WB: 1:500-1:3000
IP: 0.5-4.0 μg for IP and 1:500-1:2000 for WB

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Applications

Tested Applications: IP, WB, ELISA
Cited Applications: IHC, WB
Species Specificity: human, mouse, rat
Cited Species: mouse

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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 steroids, dolichols, carotenoids, and ubiquinones. The expression of FPPS was elevated in prostate tumor cell lines, indicating its potential role in prostate cancer progression. Western blot analysis using this antibody detected a major band around 41 kDa in mouse liver tissue.

Notable Publications

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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Caitlyn Makins</td>
<td>27634662</td>
<td>J Biol Chem</td>
<td>WB</td>
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<tr>
<td>Jian Yang</td>
<td>23180723</td>
<td>Cardiovasc Res</td>
<td>WB, IHC</td>
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<tr>
<td>Jian Yang</td>
<td>25088310</td>
<td>Biomed Res Int</td>
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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.

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

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Jurkat cells were subjected to SDS PAGE followed by western blot with 16129-1-AP (FDPS antibody) at dilution of 1:1500 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.