

FDPS Antibody (Center)

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AM8630b

Product Information

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|--------------------------|------------------------|
| Application | WB, E |
| Primary Accession | P14324 |
| Reactivity | Human, Mouse |
| Host | Mouse |
| Clonality | monoclonal |
| Isotype | IgG2b,k |
| Clone Names | 1049CT13.1.4 |
| Calculated MW | 48275 |

Additional Information

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|---------------------------|---|
| Gene ID | 2224 |
| Other Names | Farnesyl pyrophosphate synthase, FPP synthase, FPS, 2.5.1.10, (2E, 6E)-farnesyl diphosphate synthase, Dimethylallyltranstransferase, 2.5.1.1, Farnesyl diphosphate synthase, Geranyltranstransferase, FDPS, FPS, KIAA1293 |
| Target/Specificity | This FDPS antibody is generated from a mouse immunized with a recombinant protein of human FDPS. |
| Dilution | WB~~1:2000-1:4000 E~~Use at an assay dependent concentration. |
| Format | Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | FDPS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|-----------------|---|
| Name | FDPS (HGNC:3631) |
| Synonyms | FPS, KIAA1293 |
| Function | 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. FPP |

also serves as substrate for protein farnesylation and geranylgeranylation. Catalyzes the sequential condensation of isopentenyl pyrophosphate with the allylic pyrophosphates, dimethylallyl pyrophosphate, and then with the resultant geranylpyrophosphate to the ultimate product farnesyl pyrophosphate.

Cellular Location Cytoplasm.

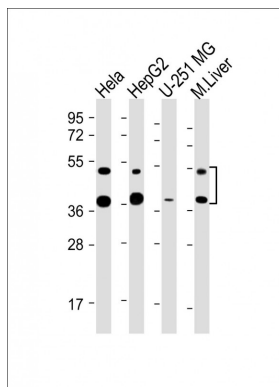
Background

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. FPP also serves as substrate for protein farnesylation and geranylgeranylation. Catalyzes the sequential condensation of isopentenyl pyrophosphate with the allylic pyrophosphates, dimethylallyl pyrophosphate, and then with the resultant geranylpyrophosphate to the ultimate product farnesyl pyrophosphate.

References

Wilkin D.J., et al. *J. Biol. Chem.* 265:4607-4614(1990).
Nomura N., et al. *DNA Res.* 1:27-35(1994).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Gregory S.G., et al. *Nature* 441:315-321(2006).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



All lanes : Anti-FDPS Antibody (Center) at 1:2000-1:4000 dilution
Lane 1: HeLa whole cell lysate
Lane 2: HepG2 whole cell lysate
Lane 3: U-251 MG whole cell lysate
Lane 4: Mouse Liver lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40, 48 kDa
Blocking/Dilution buffer: 5% NFDN/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.