10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FDPS Antibody (Center)

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8630b

Specification

FDPS Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P14324
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**monoclonal**
Isotype	**IgG2b,k**
Calculated MW	**48275**

FDPS Antibody (Center) - Additional Information

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.

FDPS Antibody (Center) - Protein Information

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.

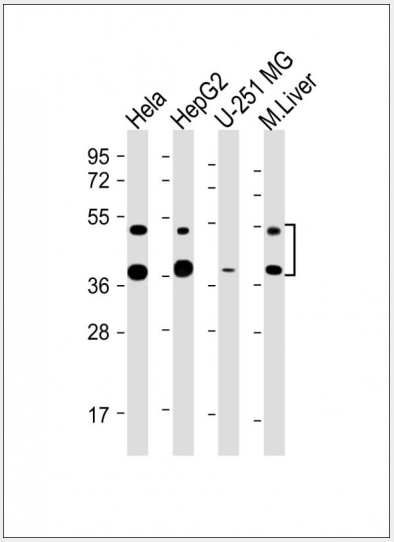
Cellular Location
Cytoplasm.

FDPS Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FDPS Antibody (Center) - 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% NFDM/TBST.

FDPS Antibody (Center) - 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.

FDPS Antibody (Center) - 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.