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

Product Information

Application	WB, E
Primary Accession	P14324
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b,k
Clone Names	1049CT13.1.4
Calculated MW	48275

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.

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.

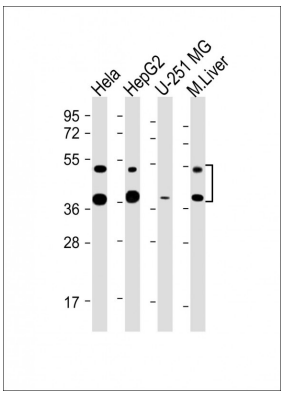
Background

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% NFDM/TBST.

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