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

FDPS Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14864a

Specification

FDPS Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	P14324

FDPS Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 2224

Other Names
Farnesyl pyrophosphate synthase, FPP synthase, FPS, (2E, 6E)-farnesyl diphosphate synthase, Dimethylallyltranstransferase, Farnesyl diphosphate synthase, Geranyltranstransferase, FDPS, FPS, KIAA1293

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FDPS Antibody (N-term) Blocking Peptide - 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 (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FDPS Antibody (N-term) Blocking Peptide - Images

FDPS Antibody (N-term) Blocking Peptide - Background

This gene encodes an enzyme that catalyzes the productionof geranyl pyrophosphate and farnesyl pyrophosphate fromisopentenyl pyrophosphate and dimethylallyl pyrophosphate. Theresulting product, farnesyl pyrophosphate, is a key intermediate incholesterol and sterol biosynthesis, a substrate for proteinfarnesylation and geranylgeranylation, and a ligand or agonist forcertain hormone receptors and growth receptors. Drugs that inhibitthis enzyme prevent the post-translational modifications of smallGTPases and have been used to treat diseases related to boneresorption. Multiple pseudogenes have been found on chromosomes 1,7, 14, 15, 21 and X. Multiple transcript variants encodingdifferent isoforms have been found for this gene.

FDPS Antibody (N-term) Blocking Peptide - References

Ishimoto, K., et al. Biochem. J. 429(2):347-357(2010)Choi, H.J., et al. Yonsei Med. J. 51(2):231-238(2010)Li, J., et al. J. Immunol. 182(12):8118-8124(2009)Romanelli, M.G., et al. Genomics 93(3):227-234(2009)Marini, F., et al. Curr Med Res Opin 24(9):2609-2615(2008)