

Product datasheet for **AP51646PU-N**

FDPS (N-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1/1000. Western Blot: 1/100 - 1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 53-82 amino acids from the N-terminal region of human FDPS
Specificity:	This antibody reacts to FDPS.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	48275 Da
Gene Name:	farnesyl diphosphate synthase
Database Link:	Entrez Gene 2224 Human P14324



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Background:

This gene encodes an enzyme that catalyzes the production of geranyl pyrophosphate and farnesyl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The resulting product, farnesyl pyrophosphate, is a key intermediate in cholesterol and sterol biosynthesis, a substrate for protein farnesylation and geranylgeranylation, and a ligand or agonist for certain hormone receptors and growth receptors. Drugs that inhibit this enzyme prevent the post-translational modifications of small GTPases and have been used to treat diseases related to bone resorption. Multiple pseudogenes have been found on chromosomes 1, 7, 14, 15, 21 and X. Multiple transcript variants encoding different isoforms have been found for this gene.

Synonyms:

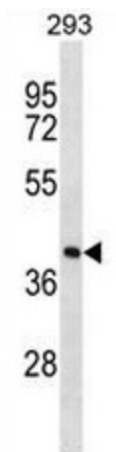
Farnesyl pyrophosphate synthetase, FPS, FDPS, KIAA1293, Farnesyl diphosphate synthase

Protein Families:

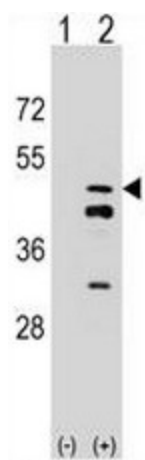
Druggable Genome

Protein Pathways:

Metabolic pathways, Terpenoid backbone biosynthesis

Product images:


FDPS Antibody (N-term) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the FDPS antibody detected the FDPS protein (arrow).



Western blot analysis of FDPS (arrow) using rabbit polyclonal FDPS Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FDPS gene.