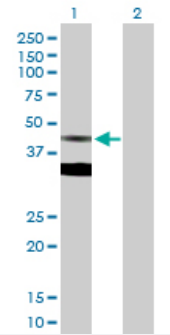
MaxPab®

FDPS purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00002224-D01P Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of FDPS expression in transfected 293T cell line (H00002224-T02) by FDPS MaxPab polyclonal antibody.

Lane 1: FDPS transfected lysate(48.30 KDa).
Lane 2: Non-transfected lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human FDPS protein.
Immunogen	FDPS (NP_001995.1, 1 a.a. ~ 419 a.a) full-length human protein.
Sequence	MPLSRWLRSVGVFLLPAPYWAPRERWLGSLRRPSLVHGYPVLAWHSARCWCQAWTEEPRALC SSLRMNGDQNSDVYAQEKQDFVQHFSQIVRVLTEDEMGHPEIGDAIARLKEVLEYNAIGGKYNRG LTVVVAFRELVEPRKQDADSLQRAWTVGWCVELLQAFFLVADDIMDSSLTRRGQICWYQKPGV GLDAINDANLLEACIYRLLKLYCREQPYYLNLIELFLQSSYQTEIGQTLDLLTAPQGNVDLVRFTEKRY KSIVKYKTAFYSFYLPIAAAMYMAGIDGEKEHANAKKILLEMGEFFQIQDDYLDLFGDPSVTGKIGTDI QDNKCSWLVVQCLQRATPEQYQILKENYGQKEAEKVARVKALYEELDLPAVFLQYEEDSYSHIMA LIEQYAAPLPPAVFLGLARKIYKRRK
Host	Rabbit
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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  Protocol Download

Gene Info — FDPS

Entrez GeneID	2224
GeneBank Accession#	NM_002004.2
Protein Accession#	NP_001995.1
Gene Name	FDPS
Gene Alias	FPPS, FPS
Gene Description	farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltranstransferase, geranyltranstransferase)
Omim ID	134629
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	FPP synthetase|OTTHUMP00000015807|OTTHUMP00000015808|farnesyl diphosphate synthase

Pathway

- Biosynthesis of alkaloids derived from terpenoid and polyketide

- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Metabolic pathways
- Terpenoid backbone biosynthesis

Disease

- Alzheimer disease