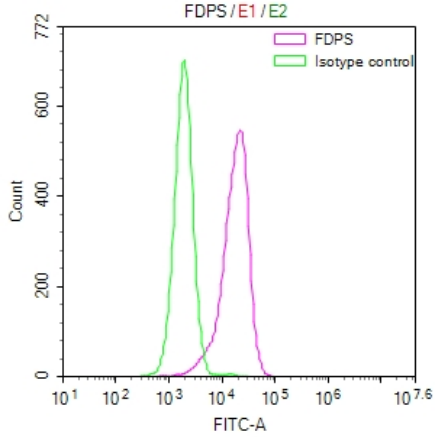
RecomAb™ Sm Size

FDPS recombinant monoclonal antibody, clone 12H4

Catalog # RAB08643 Size 50 uL

Applications



Flow Cytometry

Overlay Peak curve showing HepG2 cells stained with FDPS recombinant monoclonal antibody, clone 12H4 (red line) at 1:50.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human FDPS.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human FDPS.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) The optimal working dilution should be determined by the end user.

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Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

  Overlay Peak curve showing HepG2 cells stained with FDPS recombinant monoclonal antibody, clone 12H4 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — FDPS

Entrez GeneID	2224
Protein Accession#	P14324
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 farnes yl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The resulting product, farnesyl pyrophosphate, is a key intermediate in cholesterol and sterol biosynthesis, a su bstrate for protein farnesylation and geranylgeranylation, and a ligand or agonist for certain hormo ne receptors and growth receptors. Drugs that inhibit this enzyme prevent the post-translational m odifications 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 transcri pt variants encoding different isoforms have been found for this gene
Other Designations	FPP synthetase|OTTHUMP00000015807|OTTHUMP00000015808|farnesyl diphosphate synthas e

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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

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