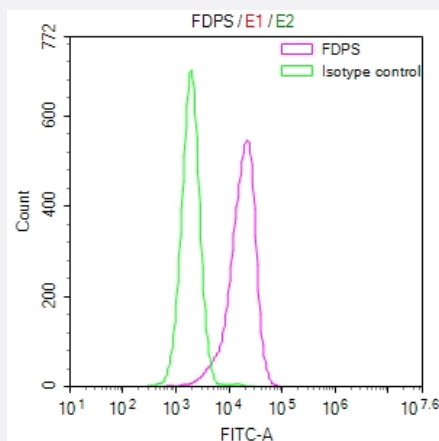


RecomAb™

FDPS recombinant monoclonal antibody, clone 12H4

Catalog # RAB07759 Size 100 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
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.
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 should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

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

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 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](#)