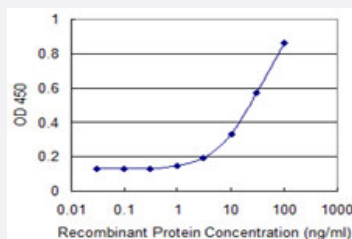


FDPS monoclonal antibody (M01), clone 3A6

Catalog # H00002224-M01

Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FDPS is 1 ng/ml as a capture antibody.

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant FDPS.
Immunogen	FDPS (NP_001995.1, 320 a.a. ~ 419 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGQKEAEKVARVKALYEELDLPVFLQYEE DSYSHIMALIEQYAAPLPPAVFLGLARKYKRRK
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged FDPS is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — FDPS

Entrez GeneID	2224
GeneBank Accession#	NM_002004
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](#)