

FDPS monoclonal antibody (M01), clone 3A6

Catalog # : H00002224-M01

規格 : [100 ug]

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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: VTGKIGTDIQDNKCSWLWQCLQRATPEQYQILKENYGQKEAEKVARVK
ALYEELDLPVFLQYEEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK

Host: Mouse

Reactivity: Human

Isotype: IgG2a Kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.

Storage Buffer: In 1x PBS, pH 7.4

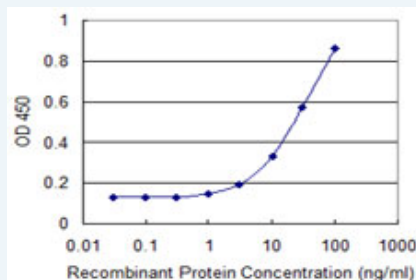
Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS:  [Download](#)

Datasheet:  [Download](#)

Applications

Sandwich ELISA (Recombinant protein)



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

 [Protocol Download](#)

ELISA

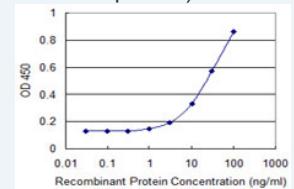
Gene Information


Entrez GeneID: [2224](#)

GeneBank Accession#: [NM_002004](#)

Application Image

Sandwich ELISA (Recombinant protein)



 [enlarge](#)

ELISA

Protein [NP_001995.1](#)

Accession#:

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

Gene Pathway

[Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
[Biosynthesis of plant hormones](#) [Biosynthesis of terpenoids and steroids](#)
[Metabolic pathways](#) [Terpenoid backbone biosynthesis](#)

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