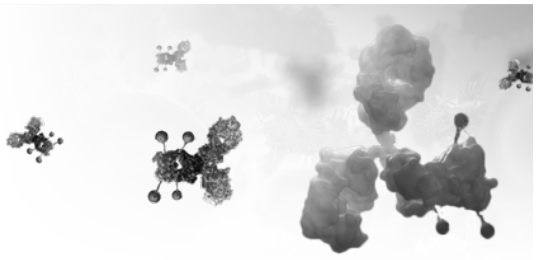

# Mouse anti-Human FDPS monoclonal antibody, clone 4B7 (CABT-B10256)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

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|---|---|
| **Immunogen** | FDPS (NP_001995, 320 a.a. ~ 420 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Isotype** | IgG2a |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | 4B7 |
| **Conjugate** | Unconjugated |
| **Applications** | sELISA,ELISA |
| **Sequence Similarities** | VTGKIGTDIQDNKCSWLVVQCLQRATPEQYQILKENYGQKEAEKVARVKALYEELDLPAV FLQYEEDSYSHIMALIEQYAAPLPPAVFLGLARKIYKRRK* |
| **Format** | Liquid |
| **Size** | 100 µg |
| **Buffer** | In 1x PBS, pH 7.2 |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## BACKGROUND

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| **Introduction** | This gene encodes an enzyme that catalyzes the production of geranyl pyrophosphate and farnesyl pyrophosphate from isopentenyl pyrophosphate and dimethylallyl pyrophosphate. The |

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|---|---|
| | 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.[provided by RefSeq, Oct 2008] |
| **Keywords** | FDPS; farnesyl diphosphate synthase; FPS; FPPS; farnesyl pyrophosphate synthase; FPP synthase; FPP synthetase; geranyltranstransferase; dimethylallyltranstransferase; (2E,6E)-farnesyl diphosphate synthase; farnesyl pyrophosphate synthetase, dimethylallyltranstransferase, geranyltranstransferase; |

# GENE INFORMATION

| | |
|---|---|
| **Entrez Gene ID** | 2224 |
| **UniProt ID** | P14324 |
| **Pathway** | Cholesterol Biosynthesis, organism-specific biosystem; Cholesterol biosynthesis, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem |
| **Function** | dimethylallyltranstransferase activity; geranyltranstransferase activity; metal ion binding; transferase activity |

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