

Rabbit anti-Human FDPS Monoclonal Antibody | anti-FDPS antibody

Recombinant Anti-FDPS Antibody (FITC), Rabbit Monoclonal

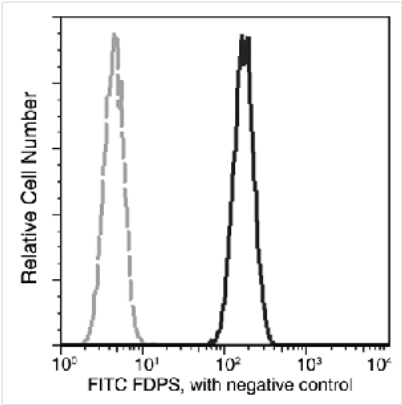
CATALOG # AAA255660	HOST Rabbit	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

FDPS; Monoclonal Antibody; Recombinant Anti-FDPS Antibody (FITC); Rabbit Monoclonal; FDPS Antibody (FITC); Rabbit MAb; farnesyl diphosphate synthase; Anti-FPPS Antibody; Anti-FPS Antibody; anti-FDPS antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	005
Specificity	Human FDPS
Purity/Purification	Protein A
Form/Format	PBS solution containing 0.5% BSA and 0.03% ProClin300
Concentration	10ul/Test, 0.1mg/ml (varies by lot)
Applicable Applications for anti-FDPS antibody	FCM/FACS (Flow Cytometry)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human FDPS protein
Conjugation	FITC
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human FDPS (rh FDPS; NP_001129294.1; Met1-Lys353) and conjugated with FITC under optimum conditions, the unreacted FITC was removed.
Reagents	FITC-conjugated Rabbit monoclonal antibody
Preparation and Storage	This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.



FCM/FACS (Flow Cytometry)
Flow cytometric analysis of Human FDPS expression on HeLa cells. The cells were treated according to manufacturer's manual (BD Pharmingen[®]), and then stained with FITC-conjugated anti-Human FDPS. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

Related Product Information for anti-FDPS antibody	Z-farnesyl diphosphate synthase (FDPS) is an enzyme belonging to the family of transferases, specifically those transferring aryl or alkyl groups other than methyl groups. Z-farnesyl diphosphate synthase (FDPS) functions as key enzyme in isoprenoid biosynthesis which catalyzes the formation of farnesyl diphosphate, a precursor for several classes of essential metabolites. FDPS 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. Functions of FDPS may be inactivated by interferon-induced RSAD2. This inactivation may result of disruption of lipid rafts at the plasma membrane, and thus have an antiviral effect since many enveloped viruses need lipid rafts to bud efficiently out of the cell.
References	Pjetursson BE, et al. (2007) Comparison of survival and complication rates of tooth-supported fixed dental prostheses (FDPs) and implant-supported FDPs and single crowns (SCs). Clin Oral Implants Res. 3:97-113.Eschbach S, et al. (2009) Clinical evaluation of all-ceramic posterior three-unit FDPs made of In-Ceram Zirconia. Int J Prosthodont. 22(5):490-2.Moshage HJ, et al. (1990) Differential effects of endotoxin and fibrinogen degradation products (FDPS) on liver synthesis of fibrinogen and albumin: evidence for the involvement of a novel monokine in the stimulation of fibrinogen synthesis induced by FDPS. Int J Biochem. 22(12): 1393-400.

NCBI AND UNIPROT INFORMATION

NCBI GI #	209571584
NCBI GeneID	2224
NCBI Accession #	NP_001129294.1
NCBI GenBank Nucleotide #	NM_001135822.1
UniProt Accession #	P14324; Q96G29; D3DV91; E9PC19
Molecular Weight	40,532 Da
NCBI Official Full Name	farnesyl pyrophosphate synthase isoform b
NCBI Official Synonym Full Names	farnesyl diphosphate synthase
NCBI Official Symbol	FDPS
NCBI Official Synonym Symbols	FPS; FPPS; POROK9

NCBI Protein Information	farnesyl pyrophosphate synthase
UniProt Protein Name	Farnesyl pyrophosphate synthase
UniProt Gene Name	FDPS
UniProt Synonym Gene Names	FPS; KIAA1293; FPP synthase; FPS
UniProt Entry Name	FPPS_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/fdps-antibody-clone-005-flow-cytometry-elisa/255660>