Recombinant FDPS/Farnesyl Diphosphate Synthase Monoclonal Antibody

catalog number: AN300076P

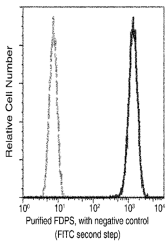
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

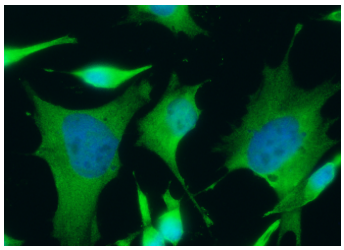
Reactivity	Human
Immunogen	Recombinant Human FDPS / Farnesyl Diphosphate Synthase protein
Host	Rabbit
Isotype	IgG
Clone	11D13
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
WB	1:500-1:2000
FCM	1:25-1:100
ICC/IF	1:20-1:100
IP	1-4 μL/mg of lysate

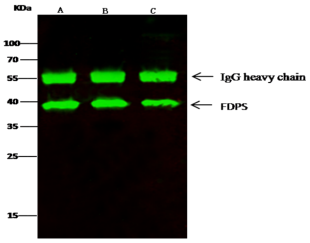
Data

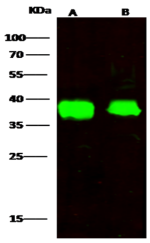


Flow cytometric analysis of Human FDPS expression on HeLa cells. The cells were stained with purified anti-Human FDPS, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.



Immunofluorescence analysis of Human FDPS in HUVEC cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human FDPS Monoclonal Antibody (1:60) at 37℃ 1 hour. Then cells were stained with the Alexa Fluor® 488-conjugated goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI for nuclear staining (blue). Positive staining was localized to cytoplasm.





Immunoprecipitation analysis using 2 µL anti-FDPS Monoclonal Antibody and 15 µl of 50 % Protein G agarose. Western blot was performed from the immunoprecipitate using FDPS Monoclonal Antibody at a dilution of 1:100. Lane A:0.5 mg Hela Whole Cell Lysate, Lane B:0.5 mg HepG2 Whole Cell Lysate, Lane C:0.5 mg A549 Whole Cell Lysate

Observed-MW:38 kDa

Calculated-MW:48 kDa

Western Blot with FDPS / Farnesyl Diphosphate Synthase Monoclonal Antibody at dilution of 1:500. Lane A: HepG2 Whole Cell Lysate, Lane B: Hela Whole Cell Lysate, Lysates/proteins at 30 µg per lane.

Observed-MW:38 kDa

Calculated-MW:48 kDa

Preparation & Storage

Storage	This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

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, 18 and X. Multiple transcript variants encoding different isoforms have been found for this gene.

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