

KD-Validated Anti-Farnesyl diphosphate synthase Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1583**Specification****KD-Validated Anti-Farnesyl diphosphate synthase Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P14324
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 48 kDa, observed, 36 kDa kDa
Gene Name	FDPS
Aliases	FDPS; Farnesyl Diphosphate Synthase; Farnesyl Pyrophosphate Synthetase, Dimethylallyltranstransferase, Geranyltranstransferase; (2E,6E)-Farnesyl Diphosphate Synthase; Farnesyl Pyrophosphate Synthase; FPP Synthase; FPS; Dimethylallyltranstransferase; Geranyltranstransferase; FPP Synthetase; EC 2.5.1.10; EC 2.5.1.1; KIAA1293; POROK9; FPPS
Immunogen	A synthesized peptide derived from human FDPS

KD-Validated Anti-Farnesyl diphosphate synthase Rabbit Monoclonal Antibody - Additional Information

Gene ID 2224

Other Names

Farnesyl pyrophosphate synthase, FPP synthase, FPS, 2.5.1.10, (2E, 6E)-farnesyl diphosphate synthase, Dimethylallyltranstransferase, 2.5.1.1, Farnesyl diphosphate synthase, Geranyltranstransferase, FDPS (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=3631), FPS, KIAA1293

KD-Validated Anti-Farnesyl diphosphate synthase Rabbit Monoclonal Antibody - Protein InformationName FDPS ([HGNC:3631](#))

Synonyms FPS, KIAA1293

Function

Key enzyme in isoprenoid biosynthesis which catalyzes the formation of farnesyl diphosphate (FPP), a precursor for several classes of essential metabolites including sterols, dolichols,

carotenoids, and ubiquinones. FPP also serves as substrate for protein farnesylation and geranylgeranylation. Catalyzes the sequential condensation of isopentenyl pyrophosphate with the allylic pyrophosphates, dimethylallyl pyrophosphate, and then with the resultant geranylpyrophosphate to the ultimate product farnesyl pyrophosphate.

Cellular Location

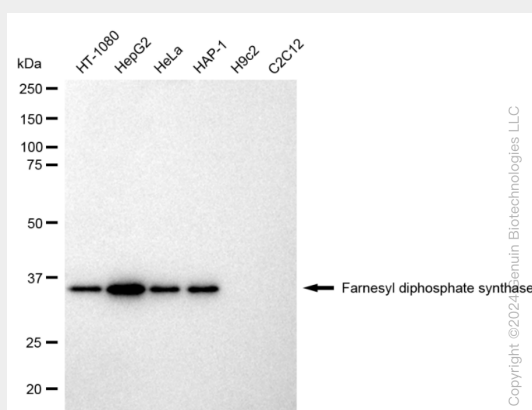
Cytoplasm.

KD-Validated Anti-Farnesyl diphosphate synthase Rabbit Monoclonal Antibody - Protocols

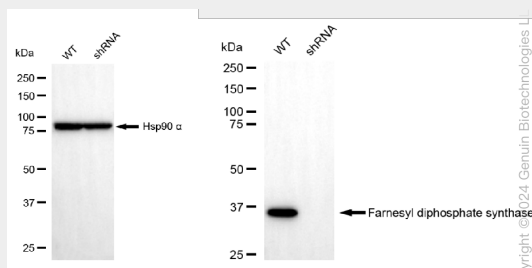
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Farnesyl diphosphate synthase Rabbit Monoclonal Antibody - Images

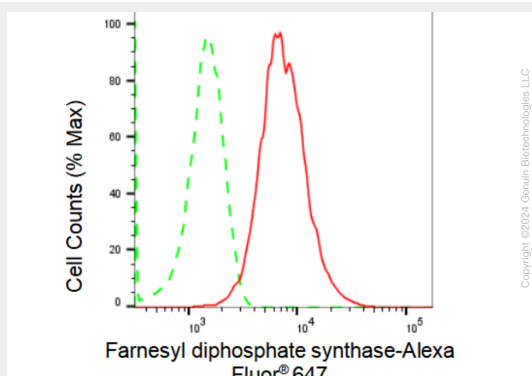


Western blotting analysis using anti-Farnesyl diphosphate synthase antibody (Cat#AGI1583). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Farnesyl diphosphate synthase antibody (Cat#AGI1583, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

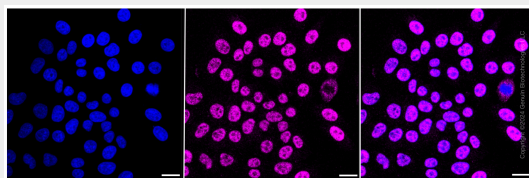


Western blotting analysis using anti-Farnesyl diphosphate synthase antibody (Cat#AGI1583). Farnesyl diphosphate synthase expression in wild type (WT) and farnesyl diphosphate synthase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Farnesyl diphosphate synthase antibody (Cat#AGI1583, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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Flow cytometric analysis of Farnesyl diphosphate synthase expression in HepG2 cells using Farnesyl diphosphate synthase antibody (Cat#AGI1583, 1:2,000). Green, isotype control; red, Farnesyl diphosphate synthase.



Immunocytochemical staining of HepG2 cells with Farnesyl diphosphate synthase antibody (Cat#AGI1583, 1:1,000). Nuclei were stained blue with DAPI; Farnesyl diphosphate synthase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.