

Datasheet for ABIN1882080
anti-FDPS antibody (N-Term)[Go to Product page](#)

3 Images

2 Publications

Overview

Quantity:	400 µL
Target:	FDPS
Binding Specificity:	AA 82-112, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	This FDPS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 82-112 amino acids from the N-terminal region of human FDPS.
Clone:	RB4783-4784
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	FDPS
Alternative Name:	FDPS (FDPS Products)
Background:	The isoprene biosynthetic pathway supply the cell with cholesterol, ubiquinone, and various

Target Details

nonsterol metabolites. The farnesylpyrophosphate synthetase enzyme catalyzes the formation of geranyl and farnesylpyrophosphate from isopentenylpyrophosphate and dimethylallyl pyrophosphate. Analysis of FDPS activity and protein in rat liver, accompanied by immunofluorescence and immunoelectron microscopy studies, demonstrated that FDPS is predominantly localized in peroxisomes.¹ Liver tissue from patients with the peroxisomal deficiency diseases Zellweger syndrome and neonatal adrenoleukodystrophy exhibit diminished activities of FDPS and subsequent isoprenoid synthesis.

Molecular Weight: 48275

NCBI Accession: [NP_001129293](#), [NP_001129294](#), [NP_001229753](#), [NP_001229754](#), [NP_001995](#)

UniProt: [P14324](#)

Pathways: [Regulation of Muscle Cell Differentiation](#)

Application Details

Application Notes: IF: 1:100. WB: 1:1000. IHC-P: 1:50~100

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

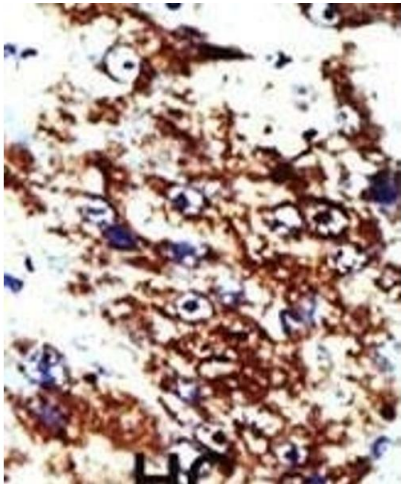
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Expiry Date: 6 months

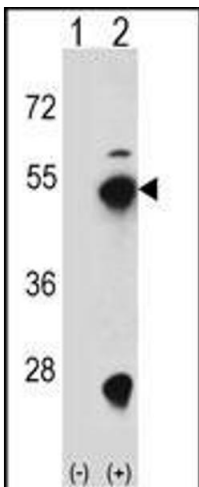
Publications

Product cited in: Mei, Li, Chu, Yiu, Lo: "The inhibitory effects of silver diamine fluoride at different concentrations on matrix metalloproteinases." in: **Dental materials : official publication of the Academy of Dental Materials**, Vol. 28, Issue 8, pp. 903-8, (2012) ([PubMed](#)).



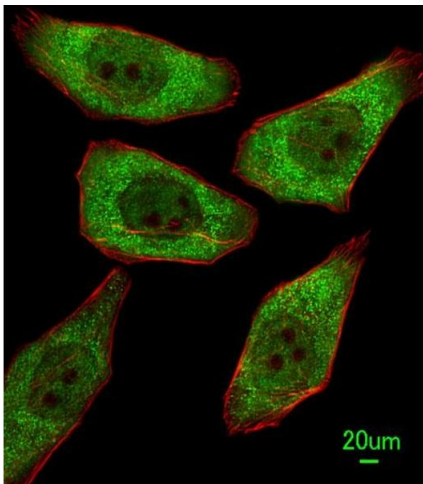
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of FDPS (arrow) using rabbit polyclonal FDPS Antibody (D31) (ABIN1882080 and ABIN2839262). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the FDPS gene.



Immunofluorescence

Image 3. Immunofluorescent analysis of A549 cells, using FDPS Antibody (N-term) (ABIN1882080 and ABIN2839262). (ABIN1882080 and ABIN2839262) was diluted at 1:100 dilution. Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with DyLight Fluor® 554 (red) conjugated Phalloidin (red).