

For Research Use Only

FDFT1 Recombinant antibody

Catalog Number: 83020-2-RR



Basic Information

Catalog Number:

83020-2-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3743

GenBank Accession Number:

BC029641

GeneID (NCBI):

2222

UNIPROT ID:

P37268

Full Name:

farnesyl-diphosphate farnesyltransferase 1

Calculated MW:

417 aa, 48 kDa

Purification Method:

Protein A purification

CloneNo.:

230362F3

Recommended Dilutions:

IF/ICC 1:100-1:500

Applications

Tested Applications:

IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : HepG2 cells,

Background Information

SQS (Squalene synthase), also known as Farnesyl-diphosphate farnesyltransferase 1 (FDFT1) is a gene that encodes the membrane-associated enzyme squalene synthase, which is the first specific enzyme in cholesterol biosynthesis. FDFT1 is highly expressed in liver, lung, prostate, breast, ovary, bladder, cervix, thyroid, and esophageal cancers, while in colorectal, colon, testicular, uterine, pancreas, and kidney tumors, its expression is downregulated (PMID: 35093030). FDFT1 is a key downstream target of the fasting response and may be involved in CRC cell glucose metabolism (PMID: 32313017).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

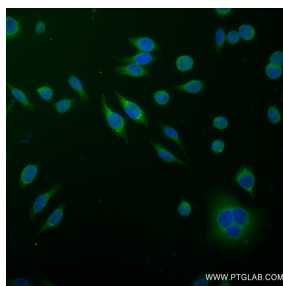
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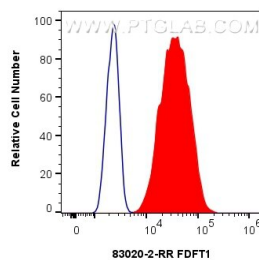
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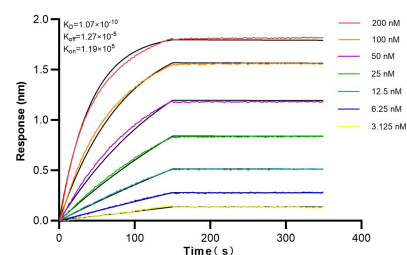
Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using FDFT1 antibody (83020-2-RR, Clone: 230362F3) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



1×10^6 U2OS cells were intracellularly stained with 0.25 μ g FDFT1 Recombinant antibody (83020-2-RR, Clone:230362F3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83020-2-RR against Human FDFT1 were performed. The affinity constant is 0.107 nM.