

# FDFT1 Recombinant antibody

Catalog Number: 83020-2-RR

## Basic Information

**Catalog Number:**

83020-2-RR

**Size:**

1000 µg/ml

**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

For technical support and original validation data for this product please contact:

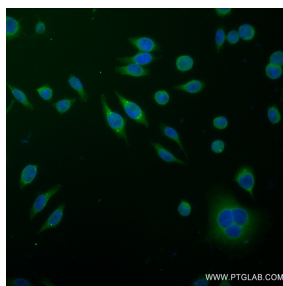
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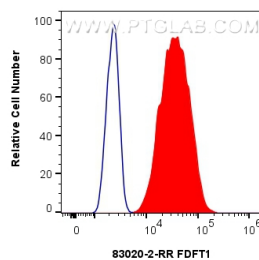
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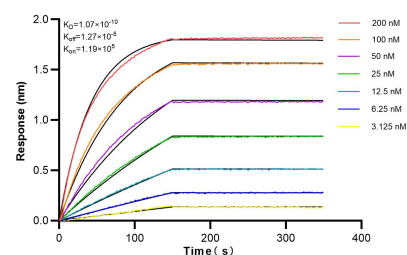
## Selected Validation Data



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 AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



$1 \times 10^6$  U2OS cells were intracellularly stained with 0.25  $\mu$ g FDFT1 Recombinant antibody (83020-2-RR, Clone:230362F3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25  $\mu$ 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.