

For Research Use Only

# CoraLite® Plus 488-conjugated FDFT1 Recombinant antibody

Catalog Number: CL488-83020-2



## Basic Information

<b>Catalog Number:</b> CL488-83020-2	<b>GenBank Accession Number:</b> BC029641	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2222	<b>CloneNo.:</b> 230362F3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P37268	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> farnesyl-diphosphate farnesyltransferase 1	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG3743	<b>Calculated MW:</b> 417 aa, 48 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : HepG2 cells,
<b>Species Specificity:</b> human	

## 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).

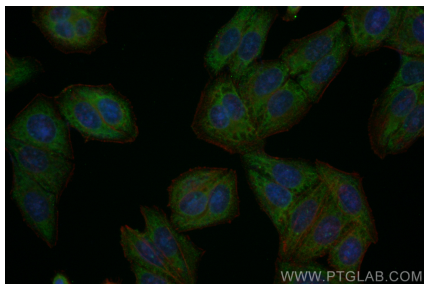
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

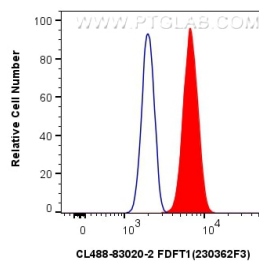
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite® Plus 488 FDFT1 antibody (CL488-83020-2, Clone: 230362F3) at dilution of 1:200.



1x10<sup>6</sup> U2OS cells were intracellularly stained with 0.25 ug CoraLite® Plus 488-conjugated FDFT1 Recombinant antibody (CL488-83020-2, Clone:230362F3)(red), or 0.25 ug CoraLite® Plus 488 Rabbit IgG Isotype Control Recombinant Antibody (CL488-98136, Clone: 240953C9). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).