

For Research Use Only

# SCD Recombinant antibody, PBS Only (Capture)

Catalog Number: 81468-2-PBS



## Basic Information

<b>Catalog Number:</b> 81468-2-PBS	<b>GenBank Accession Number:</b> BC005807	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6319	<b>CloneNo.:</b> 241487B5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O00767	
<b>Isotype:</b> IgG	<b>Full Name:</b> stearoyl-CoA desaturase (delta-9-desaturase)	
<b>Immunogen Catalog Number:</b> AG29156	<b>Calculated MW:</b> 355 aa, 41 kDa	
	<b>Observed MW:</b> 28-42 kDa	

## Applications

**Tested Applications:**  
WB, FC (Intra), Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

81468-2-PBS targets SCD as part of a matched antibody pair:

MP01272-1: 81468-2-PBS capture and 81468-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## Background Information

SCD1 (stearoyl-CoA desaturase) is a microsomal fatty acid monodesaturase, which catalyses the committed step in the biosynthesis of mono-unsaturated fatty acids from saturated fatty acids (PMID:10946019). SCD1 and SCD2 are the main isoforms expressed in mouse liver and brain respectively (PMID:15907797). The formation of homodimers and oligomers is an intrinsic property of SCD proteins. SCD1 is a multi-pass membrane protein and detected double bands of 37-42 kDa. The degradation product of 28 kDa may be caused by a major cleavage site at the C-terminus (PMID:15610069, PMID: 9843580).

## Storage

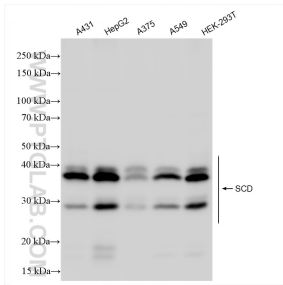
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

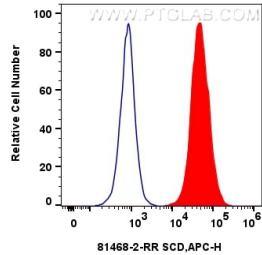
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

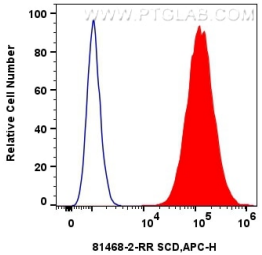
Selected Validation Data



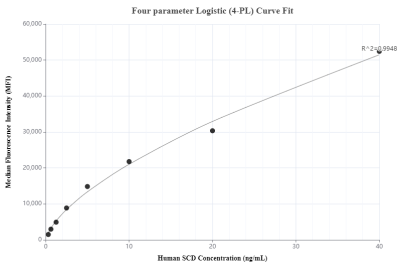
Various lysates were subjected to SDS PAGE followed by western blot with 81468-2-RR (SCD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81468-2-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.2 ug SCD Recombinant Antibody (81468-2-RR, Clone:241487B5) and Multi-rAb CoraLite ® Plus 647-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR005)(red), or 0.2 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.2 ug SCD Recombinant Antibody (81468-2-RR, Clone:241487B5) and Multi-rAb CoraLite ® Plus 647-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR005)(red), or 0.2 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same



Cytometric bead array standard curve of MP01272-1, SCD Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 81468-2-PBS. Detection antibody: 81468-3-PBS. Standard: Ag29156. Range: 0.313-40 ng/mL