For Research Use Only

## SCD1 Recombinant antibody

Catalog Number:81468-5-RR

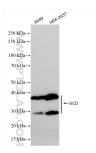


Basic Information	Catalog Number: 81468-5-RR	GenBank Accession Number: BC005807	Purification Method: Protein A purfication
	Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG29156	GenelD (NCBI): 6319	CloneNo.: 241487E12
		UNIPROT ID: O00767 Full Name: stearoyl-CoA desaturase (delta-9- desaturase)	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
		Observed MW: 28-42 kDa	
		Applications	Tested Applications: WB, IF/ICC, FC (Intra), ELISA Species Specificity: human
WB : A549 cells, HEK-293 cells IF/ICC : MCF-7 cells,			
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 -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage	

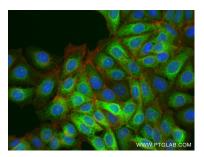
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

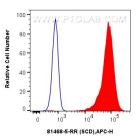
## Selected Validation Data



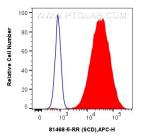
Various lysates were subjected to SDS PAGE followed by western blot with 81468-5-RR (SCD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

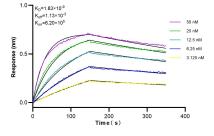


Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SCD antibody (81468-5-RR, Clone: 241487E12) at dilution of 1:400 and CoralLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10^6 HepG2 cells were intracellularly stained with 0.25 ug SCD Recombinant antibody (81468-5-RR, Clone:241487E12) and APC-Conjugated Goat Anti-Rabbit 1gG(IH+L)(red), or 0.25 ug Rabbit 1gG 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).





1x10^6 MCF-7 cells were intracellularly stained with 0.25 ug SCD Recombinant antibody (81468-5-RR, Clone:241487E12) and APC-Conjugated Goat Anti-Rabbit IgG(I+L)(red), or 0.25 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).

Biolayer interferometry (BLL) kinetic assays of 81468-5-RR against Human SCD were performed. The affinity constant is 1.83 nM.