For Research Use Only

## SCD1 Recombinant antibody

Catalog Number:81468-5-RR

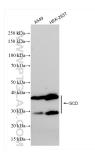


Basic Information	Catalog Number: 81468-5-RR	GenBank Accession Number: BC005807	Purification Method: Protein A purfication	
	Size: 1000 ug/ml	GenelD (NCBI): 6319	CloneNo.: 241487E12	
	Source: Rabbit	UNIPROT ID: 000767	Recommended Dilutions: WB 1:5000-1:50000	
	Isotype: IgG Immunogen Catalog Number:	Full Name: IF/ICC 1:200-1:800   stearoyl-CoA desaturase (delta-9-   desaturase)   Calculated MW:   355 aa, 41 kDa		
	AG29156			
		Observed MW: 28-42 kDa		
Applications	Tested Applications: WB, IF/ICC, FC (Intra), ELISA		ositive Controls:	
	Species Specificity: human	WB : A549 cells, HEK-293 cells IF/ICC : MCF-7 cells,		
Background Informatio	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 Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	i 50% glycerol pH 7.3.		

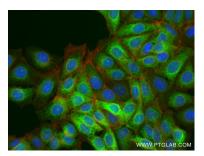
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

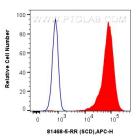
## Selected Validation Data



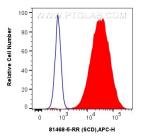
Various lysates were subjected to SDS PAGE followed by western blot with 81468-5-RR (SCD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

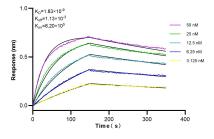


Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using SCD antibody (81468-5-RR, Clone: 241487E12) at dilution of 1:400 and CoralLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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.