



Rabbit Anti-SCD antibody

SL55193R

Product Name [KO validated anti] SCD

Chinese Name 固醇酰辅酶 A 脱氢酶 1 抗体

Alias SCD_HUMAN; Stearoyl-CoA desaturase; EC:1.14.19.1; hSCD1; Acyl-CoA desaturase; Delta(9)-desaturase (Delta-9 desaturase); Fatty acid desaturase; FADS5; SCD1; SCDO5; MSTP

Research Area Tumour Cardiovascular immunology Signal transduction Synthesis and Degradation Lipoprotein
supersedes the old

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human Mouse Rat

WB=1:500-2000,IHC-P=1:50-200,IHC-F=1:50-200,ICC/IF=1:50-200,IF=1:50-200,ELISA=1:500

Applications (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 41kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human SCD: 200-359/359

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% C

Storage Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at -20 °C for at least one month and for greater than a year when kept at -20 °C. When reconstituted in sterile pH 7.4 Human,Mouse,Rat1M PBS or diluent of antibody the antibody is stable for at least 6 months at 2-4 °C.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or d

PubMed

applications.

[PubMed](#)

This gene encodes an enzyme involved in fatty acid biosynthesis, primarily the synthesis of oleic acid. The gene belongs to the fatty acid desaturase family and is an integral membrane protein located in the endoplasmic reticulum. Transcripts of approximately 3.9 and 5.2 kb, differing only by alternative polyadenylation signals, have been detected. A gene encoding a similar enzyme is located on chromosome 4 and a pseudogene of this gene is located on chromosome 17. [provided by RefSeq, Sep 2015]

Function:

Terminal component of the liver microsomal stearyl-CoA desaturase system, that utilizes O(2) and electrons from reduced cytochrome b5 to catalyze the insertion of a double bond into a spectrum of acyl-CoA substrates including palmitoyl-CoA and stearyl-CoA.

Subcellular Location:

Endoplasmic reticulum membrane; Multi-pass membrane protein (Probable).

Similarity:

Belongs to the fatty acid desaturase family.

SWISS:

O00767

**Product
Detail**

Gene ID:

6319

Database links:

[Entrez Gene: 6319](#) Human

[Entrez Gene: 20249](#) Mouse

[Entrez Gene: 83792](#) Rat

[Omim: 604031](#) Human

[SwissProt: O00767](#) Human

[SwissProt: P13516](#) Mouse

[SwissProt: P07308](#) Rat

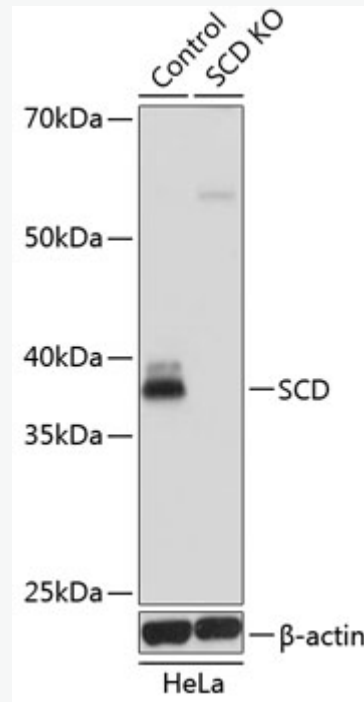
[Unigene: 558396](#) Human

[Unigene: 597496](#) Human

固醇酰辅酶 A 脱氢酶 1(SCD1)是催化细胞中饱和脂肪酸(SFA)转化为单不饱和脂肪酸(MUFA)

速酶，在调控脂肪酸代谢、维持能量平衡、调节胰岛素敏感性及衰老等方面都发挥着重要作用。在肥胖、激素调节、对瘦素的作用等研究受到了重视。

**Product
Picture**



Sample:

Lane 1: HeLa (Human) Cell Lysate at 25 ug

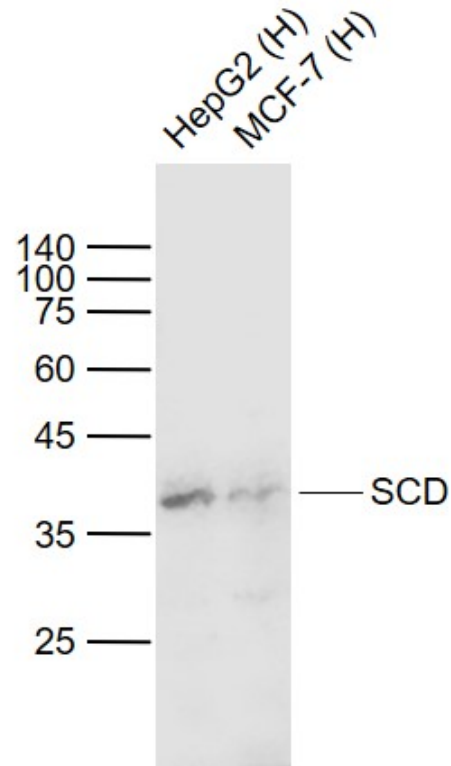
Lane 2: SCD knockout (KO) HeLa (Human) Cell Lysate at 25 ug

Primary: Anti-RHOC (SL55193R) at 1/1000 dilution

Secondary: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution

Predicted band size: 38 kD

Observed band size: 38 kD



Sample:

Lane 1: HepG2 (Human) Cell Lysate at 30 ug

Lane 2: MCF-7 (Human) Cell Lysate at 30 ug

Primary:

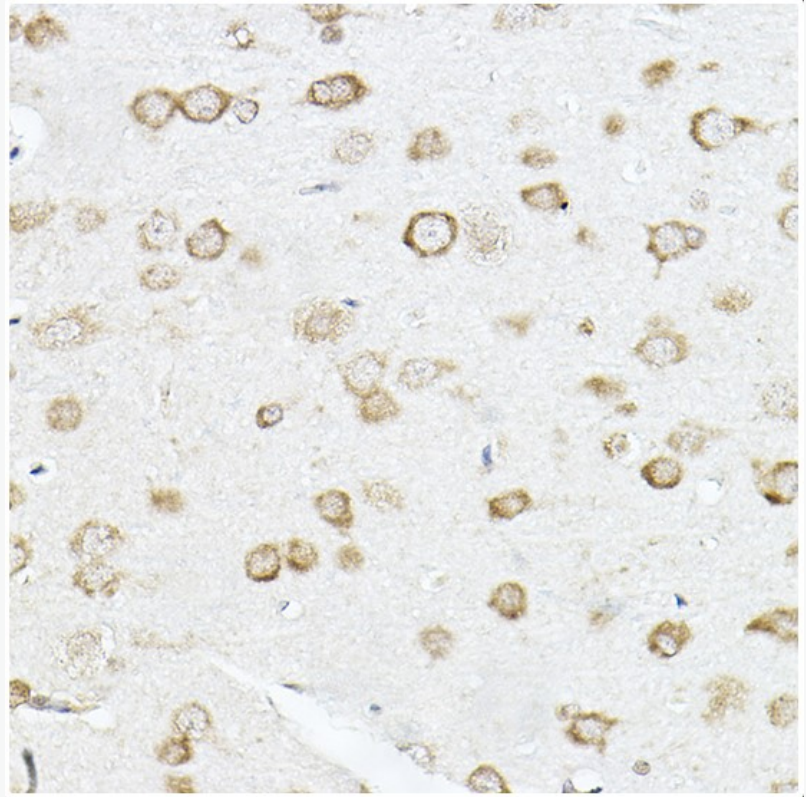
Anti-SCD (SL55193R) at 1/1000 dilution

Secondary:

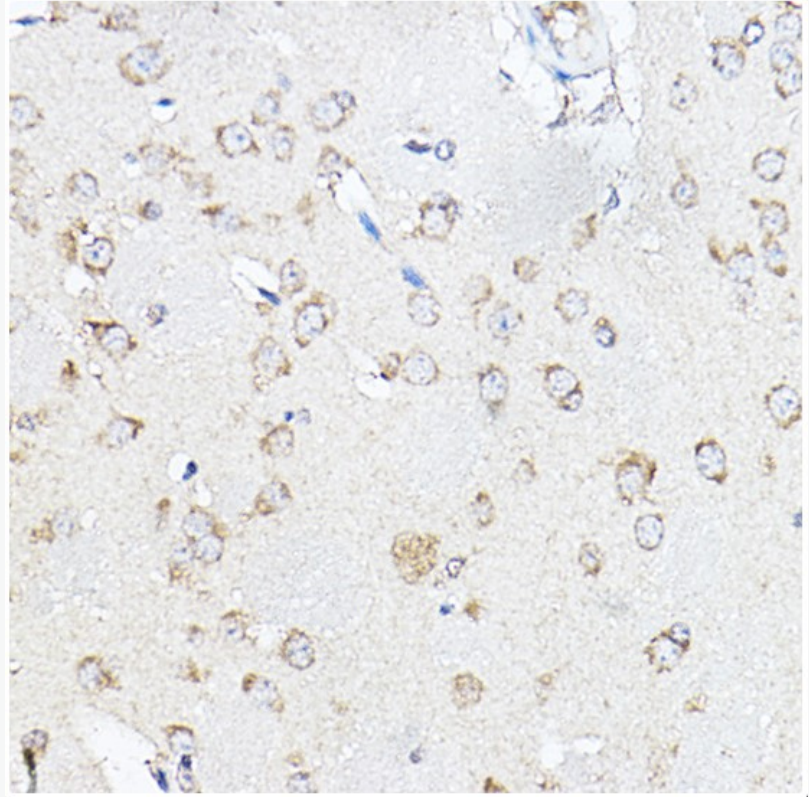
IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 38 kD

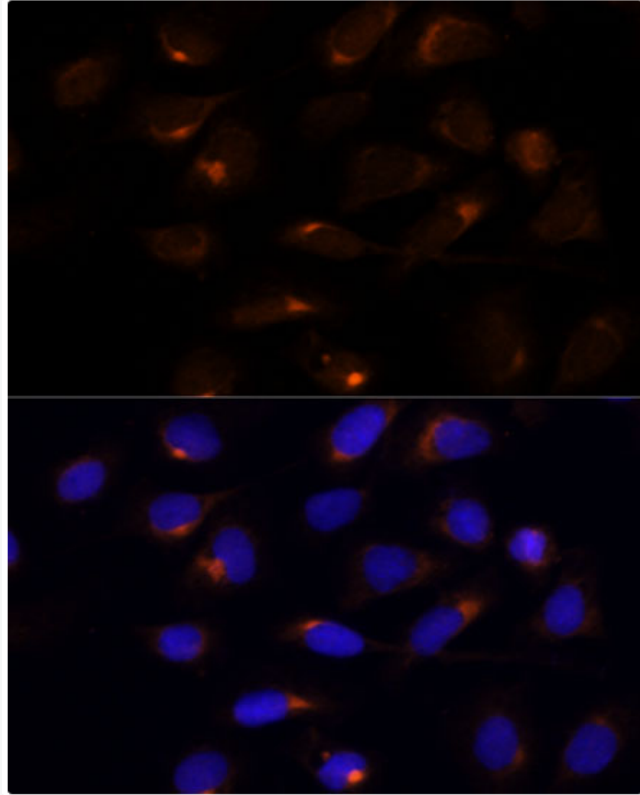
Observed band size: 38 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SCD) Polyclonal Antibody, Unconjugated (SL55193R) at 1:100 overnight at 4°C, followed by operating according to the DAB Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 10 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SUNLONG) Polyclonal Antibody, Unconjugated (SL55193R) at 1:100 overnight at 4°C, followed by operation according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



U2-OS cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Block buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (KO Validated) polyclonal Antibody, Unconjugated (SL55193R) 1:100, 90 minutes at 37°C; followed by a control Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain cell nuclei.