

SCD1/SCD3 Rabbit mAb

Catalog No.: A28834 **Recombinant**

Basic Information

Observed MW

37 kDa

Calculated MW

41 kDa/15 kDa

Category

Primary antibody

Applications

WB,IF/ICC,IF-F,IF-P,IHC-P,ELISA

Cross-Reactivity

Mouse, Rat

CloneNo number

ARC82277

Background

Enables metal ion binding activity; palmitoyl-CoA 9-desaturase activity; and stearyl-CoA 9-desaturase activity. Involved in several processes, including positive regulation of cold-induced thermogenesis; sterol homeostasis; and tarsal gland development. Acts upstream of or within several processes, including brown fat cell differentiation; monounsaturated fatty acid biosynthetic process; and white fat cell differentiation. Located in endoplasmic reticulum membrane. Is expressed in several structures, including adipose tissue; central nervous system; cranium; integumental system; and liver. Orthologous to human SCD (stearyl-CoA desaturase). Enables palmitoyl-CoA 9-desaturase activity. Acts upstream of or within monounsaturated fatty acid biosynthetic process. Predicted to be located in endoplasmic reticulum; membrane; and nucleolus. Predicted to be active in endoplasmic reticulum membrane. Is expressed in several structures, including alimentary system; nervous system; respiratory system; sensory organ; and skeleton. Orthologous to human SCD (stearyl-CoA desaturase).

Recommended Dilutions

WB 1:10000 - 1:150000**IF/ICC** 1:1000 - 1:8000**IF-F** 1:1000 - 1:8000**IF-P** 1:1000 - 1:8000**IHC-P** 1:2000 - 1:20000**ELISA** Recommended starting concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements.

For high-ratio antibody dilutions ($\geq 1:10000$) a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID

20249/30049

Swiss Prot

P13516/Q99PL7

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

Scd; Scd-1; ab; 4930513N16Rik

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

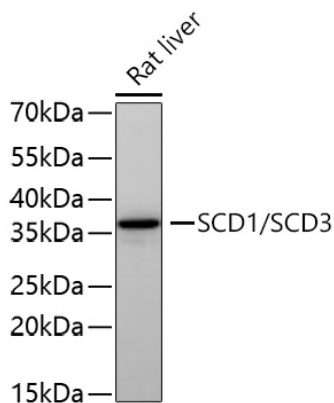
Contact

☎ | 400-999-6126

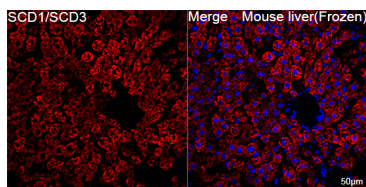
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

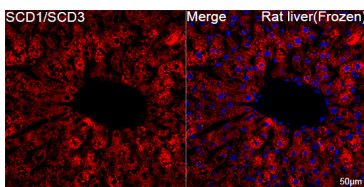
Validation Data



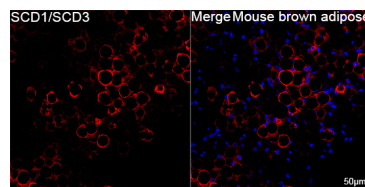
Western blot analysis of lysates from Rat liver using SCD1/SCD3 Rabbit mAb (A28834) at 1:150000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



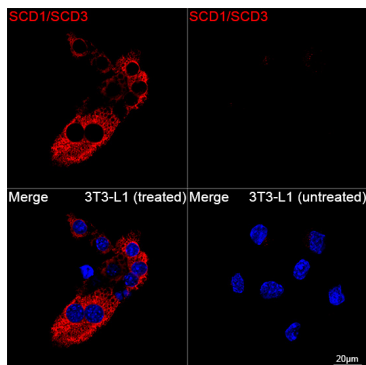
Confocal imaging of frozen sections of Mouse liver tissue using SCD1/SCD3 Rabbit mAb (A28834, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



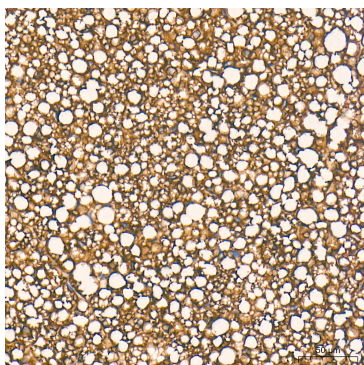
Confocal imaging of frozen sections of Rat liver tissue using SCD1/SCD3 Rabbit mAb (A28834, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



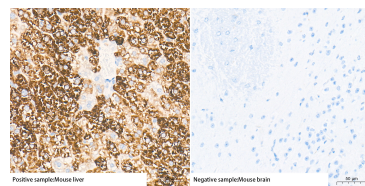
Confocal imaging of paraffin-embedded Mouse brown adipose tissue using SCD1/SCD3 Rabbit mAb (A28834, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



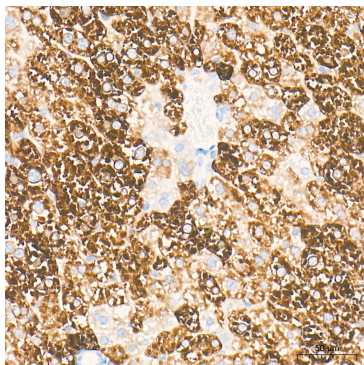
Confocal imaging of 3T3-L1 differentiated cells and 3T3-L1 cells using SCD1/SCD3 Rabbit mAb (A28834, dilution 1:8000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



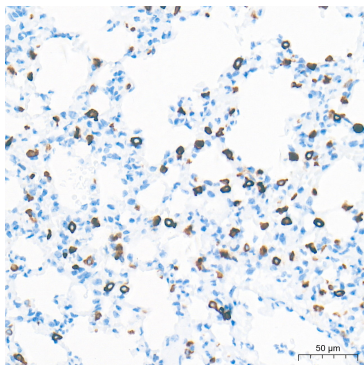
Immunohistochemistry analysis of paraffin-embedded Mouse brown adipose tissue using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



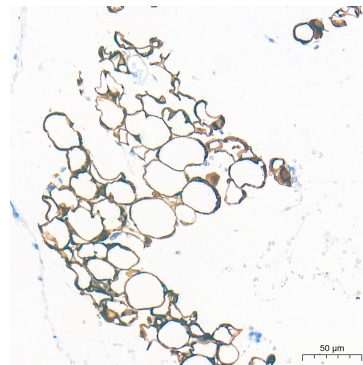
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue (left, Positive control) and Mouse brain tissue (right, Negative control), using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



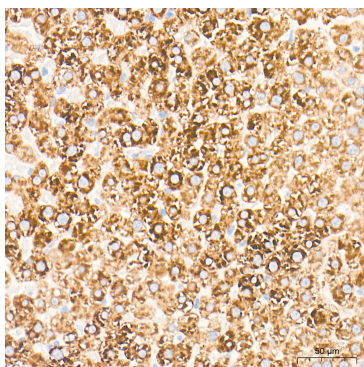
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



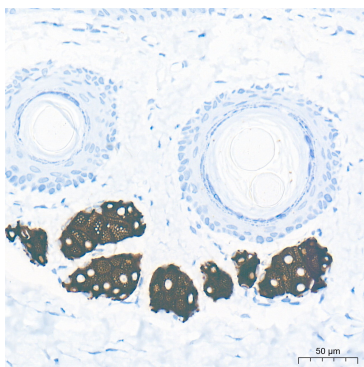
Immunohistochemistry analysis of paraffin-embedded Mouse lung tissue using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse white fat tissue using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat skin tissue using SCD1/SCD3 Rabbit mAb (A28834) at a dilution of 1:2000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.