

SC5DL Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP56628

Specification

SC5DL Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession 075845 Reactivity Rat, Pig, Dog Host Rabbit Clonality **Polyclonal** Calculated MW **35 KDa**

Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human SC5DL

201-299/299 **Epitope Specificity**

Isotype **Purity** affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION **Endoplasmic reticulum membrane**;

Multipass membrane protein

This product as supplied is intended for Important Note research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

This gene encodes an enzyme of cholesterol biosynthesis. The encoded protein catalyzes the conversion of lathosterol into 7-dehydrocholesterol. Mutations in this gene have been associated with lathosterolosis. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008]

SC5DL Polyclonal Antibody - Additional Information

Gene ID 6309

Other Names

Lathosterol oxidase, 1.14.19.20, C-5 sterol desaturase, Delta(7)-sterol 5-desaturase, Delta(7)-sterol C5(6)-desaturase, Lathosterol 5-desaturase, Sterol-C5-desaturase, SC5D (HGNC:10547), SC5DL

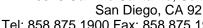
Dilution

IHC-P~~N/A<br \><span class</pre>

="dilution IHC-F">IHC-F~~N/A<br \><span class

="dilution IF">IF~~1:50~200
span class = "dilution ICC">ICC~~N/A
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\>E~~N/A





Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

SC5DL Polyclonal Antibody - Protein Information

Name SC5D (HGNC:10547)

Function

Catalyzes the penultimate step of the biosynthesis of cholesterol, the dehydrogenation of lathosterol into 7- dehydrocholesterol (7-DHC). Cholesterol is the major sterol component in mammalian membranes and a precursor for bile acid and steroid hormone synthesis (PubMed: 10786622, PubMed:38297129). In addition to its essential role in cholesterol biosynthesis, it also indirectly regulates ferroptosis through the production of 7-DHC. By diverting the spread of damage caused by peroxyl radicals from the phospholipid components to its sterol nucleus, 7-DHC prevents this form of cell death (PubMed:38297129, PubMed:38297130).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

SC5DL Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SC5DL Polyclonal Antibody - Images