

SC5DL antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12492**Specification**

SC5DL antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O75845
Other Accession	NM_001024956 , NP_001020127
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35kDa KDa

SC5DL antibody - N-terminal region - Additional Information**Gene ID** 6309**Alias Symbol** **ERG3, S5DES, SC5D, SC5DL****Other Names**

Lathosterol oxidase, 1.14.21.6, C-5 sterol desaturase, Delta(7)-sterol 5-desaturase, Lathosterol 5-desaturase, Sterol-C5-desaturase, SC5D, SC5DL

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-SC5DL antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

SC5DL antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SC5DL antibody - N-terminal region - 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](http://www.uniprot.org/citations/10786622), PubMed: [38297129](http://www.uniprot.org/citations/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](#)).

href="http://www.uniprot.org/citations/38297129" target="_blank">38297129, PubMed:38297130).

Cellular Location

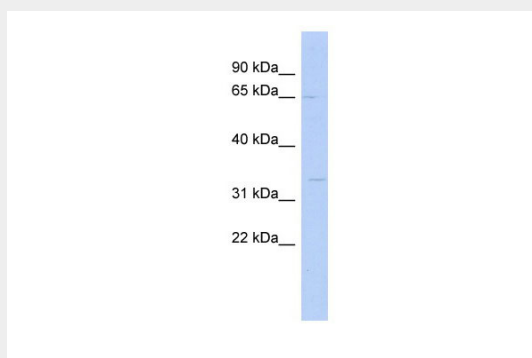
Endoplasmic reticulum membrane; Multi-pass membrane protein

SC5DL antibody - N-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SC5DL antibody - N-terminal region - Images



WB Suggested Anti-SC5DL Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:1562500

Positive Control: COLO205 cell lysate

SC5DL antibody - N-terminal region - References

Krakowiak, P.A., (2003) Hum. Mol. Genet. 12(13), 1631-1641 Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.