

# SC5DL antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12492

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">O75845</a>
<b>Other Accession</b>	<a href="#">NM_001024956</a> , <a href="#">NP_001020127</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	35301

## Additional Information

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<b>Gene ID</b>	6309
<b>Alias Symbol</b>	ERG3, S5DES, SC5D, SC5DL
<b>Other Names</b>	Lathosterol oxidase, 1.14.21.6, C-5 sterol desaturase, Delta(7)-sterol 5-desaturase, Lathosterol 5-desaturase, Sterol-C5-desaturase, SC5D, SC5DL
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	SC5DL antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SC5D ( <a href="#">HGNC:10547</a> )
<b>Function</b>	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: <a href="#">10786622</a> , PubMed: <a href="#">38297129</a> ). 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: <a href="#">38297129</a> , PubMed: <a href="#">38297130</a> ).

**Cellular Location**

Endoplasmic reticulum membrane; Multi-pass membrane protein

**References**

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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.

**Images**

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

ELISA Titer: 1:1562500

Positive Control: COLO205 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.