

SC5DL antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # AI12492

Product Information

Application WB Primary Accession <u>075845</u>

Other Accession NM 001024956, NP 001020127

Reactivity Human
Predicted Human
Host Rabbit
Clonality Polyclonal
Calculated MW 35301

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.

Protein Information

Name SC5D (<u>HGNC:10547</u>)

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

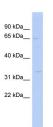
biosynthesis, it also indirectly regulates ferroptosis through the production of 7-DHC. By diverting the spread of damage caused by peroxyl radicals from the phospholipid components to its sterol nucleus, 7-DHC prevents this form of

cell death (PubMed:38297129, PubMed:38297130).

References

Krakowiak, P.A., (2003) Hum. Mol. Genet. 12(13), 1631-1641 Reconstitution and Storage: For short termuse, store at 2-8 Cupto 1 week. For long terms to rage, store at 2-20 Cinsmall aliquots to prevent freeze-thaw cycles.

Images



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'.