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SC5DL antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI12492

Product Information

Application	WB
Primary Accession	O75845
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

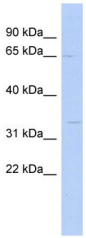
Name	SC5D (HGNC:10547)
Function	Catalyzes the penultimate step of the biosynthesis of cholesterol, the dehydrogenation of lathosterol into 7- dehydrocholesterol (7-DHC). Cholesterol is the major sterol component in mammalian membranes and a precursor for bile acid and steroid hormone synthesis (PubMed:10786622, 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

References

Krakowiak,P.A.,(2003)Hum.Mol.Genet.12(13),1631-1641ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

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'.