

**LASS5+6 / CerS5+6 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2819a

**Specification**

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**LASS5+6 / CerS5+6 Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">Q8N5B7</a>
Other Accession	<a href="#">NP_671723.1</a> , <a href="#">NP_982288.1</a> , <a href="#">91012</a> , <a href="#">253782</a> , <a href="#">71949 (mouse)</a> , <a href="#">366984 (rat)</a>
Predicted Host	Human, Mouse, Rat, Dog
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	45752

**LASS5+6 / CerS5+6 Antibody (internal region) - Additional Information**

**Gene ID** 91012

**Other Names**

Ceramide synthase 5, CerS5, 2.3.1.24, LAG1 longevity assurance homolog 5, CERS5, LASS5

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

LASS5+6 / CerS5+6 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**LASS5+6 / CerS5+6 Antibody (internal region) - Protein Information**

**Name** CERS5 ([HGNC:23749](#))

**Function**

Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward palmitoyl-CoA (hexadecanoyl-CoA; C16:0-CoA) (PubMed:<a href="http://www.uniprot.org/citations/16951403" target="\_blank">16951403</a>, PubMed:<a href="http://www.uniprot.org/citations/18541923" target="\_blank">18541923</a>, PubMed:<a href="http://www.uniprot.org/citations/22144673" target="\_blank">22144673</a>, PubMed:<a href="http://www.uniprot.org/citations/22661289" target="\_blank">22661289</a>, PubMed:<a href="http://www.uniprot.org/citations/23530041" target="\_blank">23530041</a>, PubMed:<a

href="http://www.uniprot.org/citations/26887952" target="\_blank">26887952</a>, PubMed:<a href="http://www.uniprot.org/citations/29632068" target="\_blank">29632068</a>, PubMed:<a href="http://www.uniprot.org/citations/31916624" target="\_blank">31916624</a>). Can use other acyl donors, but with less efficiency (By similarity). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (PubMed:<a href="http://www.uniprot.org/citations/31916624" target="\_blank">31916624</a>). Plays a role in de novo ceramide synthesis and surfactant homeostasis in pulmonary epithelia (By similarity).

#### **Cellular Location**

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9D6K9}; Multi-pass membrane protein

#### **LASS5+6 / CerS5+6 Antibody (internal 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](#)

#### **LASS5+6 / CerS5+6 Antibody (internal region) - Images**

#### **LASS5+6 / CerS5+6 Antibody (internal region) - Background**

This antibody is expected to cross-react with the highly similar LASS6.

#### **LASS5+6 / CerS5+6 Antibody (internal region) - References**

(Dihydro)ceramide synthase 1 regulated sensitivity to cisplatin is associated with the activation of p38 mitogen-activated protein kinase and is abrogated by sphingosine kinase 1. Min J, Mesika A, Sivaguru M, Van Veldhoven PP, Alexander H, Futerman AH, Alexander S. Mol Cancer Res. 2007 Aug;5(8):801-12. PMID: 17699106