

Goat Anti-LASS3 / CerS3 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1615a**Specification**

Goat Anti-LASS3 / CerS3 Antibody - Product Information

Application	WB, E
Primary Accession	Q8IU89
Other Accession	NP_849164 , 204219 , 545975 (mouse) , 499174 (rat)
Reactivity	Rat
Predicted	Human, Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	46316

Goat Anti-LASS3 / CerS3 Antibody - Additional Information**Gene ID** 204219**Other Names**

Ceramide synthase 3, CerS3, 2.3.1.24, Dihydroceramide synthase 3, LAG1 longevity assurance homolog 3, CERS3, LASS3

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, 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

Goat Anti-LASS3 / CerS3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-LASS3 / CerS3 Antibody - Protein Information**Name** CERS3 {ECO:0000303|PubMed:17977534, ECO:0000312|HGNC:HGNC:23752}**Function**

Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward very- and ultra-long-chain fatty acyl-CoA (chain length greater than C22) (PubMed: [17977534](http://www.uniprot.org/citations/17977534), PubMed: [22038835](http://www.uniprot.org/citations/22038835), PubMed: [26887952](http://www.uniprot.org/citations/26887952)). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (PubMed: [17977534](http://www.uniprot.org/citations/17977534), PubMed: [22038835](http://www.uniprot.org/citations/22038835), PubMed: [26887952](http://www.uniprot.org/citations/26887952)). It is crucial for the synthesis of ultra-long-chain ceramides in the epidermis, to maintain epidermal lipid homeostasis and terminal differentiation (PubMed: [23754960](http://www.uniprot.org/citations/23754960)).

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q1A3B0}; Multi-pass membrane protein

Tissue Location

Expressed in the epidermis, where it localizes at the interface between the stratum granulosum and the stratum corneum (at protein level).

Goat Anti-LASS3 / CerS3 Antibody - 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](#)

Goat Anti-LASS3 / CerS3 Antibody - Images



AF1615a (0.2 µg/ml) staining of Rat Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-LASS3 / CerS3 Antibody - References

A meta-analysis of four genome-wide association studies of survival to age 90 years or older: the Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium. Newman AB, et al. J Gerontol A Biol Sci Med Sci, 2010 May. PMID 20304771.

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.