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CerS6 / LASS6 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12657

Specification

CerS6 / LASS6 Antibody (N-Terminus) - Product Information

Application	**WB, IF, IHC**
Primary Accession	Q6ZMG9
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**45kDa KDa**
Dilution	**WB~~1:1000**

CerS6 / LASS6 Antibody (N-Terminus) - Additional Information

Gene ID 253782

Other Names
Ceramide synthase 6, CerS6, LAG1 longevity assurance homolog 6, CERS6, LASS6

Target/Specificity
At least two isoforms of LASS6 are known to exist. This antibody is predicted not to cross-react with LASS5.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
CerS6 / LASS6 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CerS6 / LASS6 Antibody (N-Terminus) - Protein Information

Name CERS6 (HGNC:23826)

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:17609214, PubMed:17977534, PubMed:23530041, PubMed:26887952, PubMed:31916624). 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:17977534, PubMed:<a href="http://www.uniprot.org/citations/23530041"

target="_blank">23530041, PubMed:26887952, PubMed:31916624). Ceramides generated by CERS6 play a role in inflammatory response (By similarity). Acts as a regulator of metabolism and hepatic lipid accumulation (By similarity). Under high fat diet, palmitoyl- (C16:0-) ceramides generated by CERS6 specifically bind the mitochondrial fission factor MFF, thereby promoting mitochondrial fragmentation and contributing to the development of obesity (By similarity).

Cellular Location
Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8C172}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q8C172}

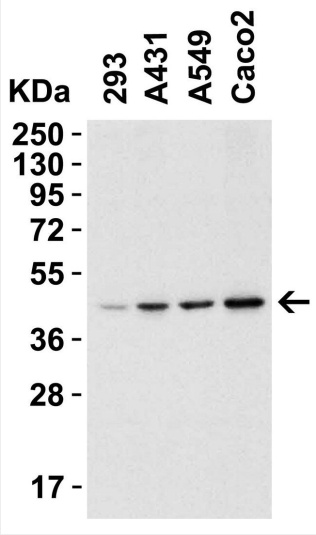
Volume
Array

CerS6 / LASS6 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CerS6 / LASS6 Antibody (N-Terminus) - Images



All lanes: Anti-CERS6 antibody at 1:1000 dilution Lane 1: 293 whole cell lysate Lane 2: A431 whole cell lysate Lane 3: A549 whole cell lysate Lane 4: Caco2 whole cell lysate Lysates/proteins at 15 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 45 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

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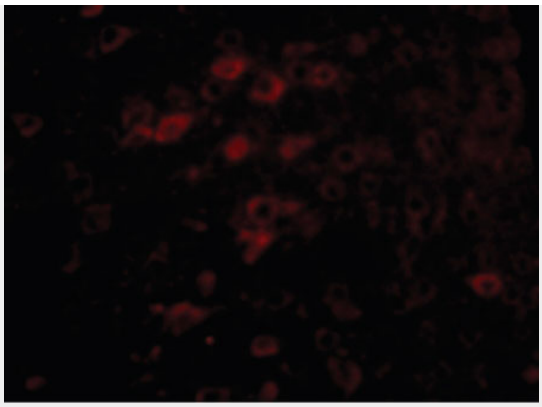
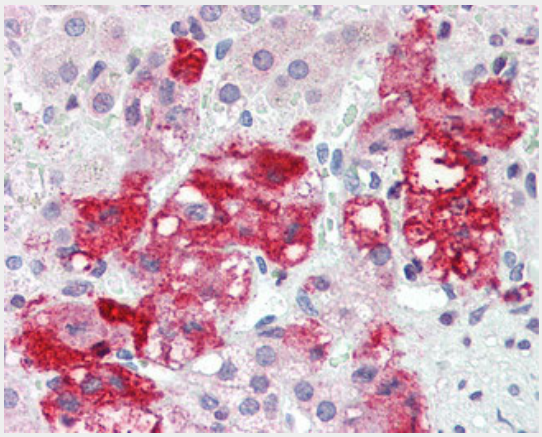


Immunofluorescence of LASS6 in Mouse Brain cells with LASS6 antibody at 5 ug/ml.



Anti-LASS6 antibody IHC of human adrenal.

CerS6 / LASS6 Antibody (N-Terminus) - Background

May be involved in sphingolipid synthesis or its regulation.

CerS6 / LASS6 Antibody (N-Terminus) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Chen R.,et al.J. Proteome Res. 8:651-661(2009).