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LASS1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13060

Product Information

Application	WB
Primary Accession	P27544
Other Accession	NM_021267, NP_067090
Reactivity	Human, Mouse, Rat, Horse
Predicted	Human, Mouse, Rat, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39536

Additional Information

Gene ID	10715
Alias Symbol	CerS1, LAG1, MGC90349, UOG1, LASS1
Other Names	Ceramide synthase 1, CerS1, LAG1 longevity assurance homolog 1, Longevity assurance gene 1 protein homolog 1, Protein UOG-1, CERS1, LAG1, LASS1, UOG1
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-LASS1 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	LASS1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

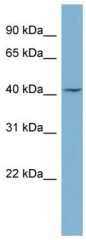
Name	CERS1 {ECO:0000303|PubMed:17977534, ECO:0000312|HGNC:HGNC:14253}
Function	Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward stearoyl-CoA (octadecanoyl-CoA; C18:0-CoA) (PubMed:17977534, PubMed:23530041, PubMed:26887952, PubMed:31916624). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (PubMed:17977534, PubMed:23530041, PubMed:24782409, PubMed:26887952, PubMed:31916624). Plays a predominant role in skeletal muscle in regulating C18 ceramide and dihydroceramide levels with an impact on whole-body

	glucose metabolism and insulin sensitivity. Protects from diet-induced obesity by suppressing the uptake of glucose in multiple organs in a FGF21-dependent way (By similarity). Generates C18 ceramides in the brain, playing a critical role in cerebellar development and Purkinje cell function (By similarity). In response to cellular stress mediates mitophagy, a known defense mechanism against cell transformation and aging. Upon mitochondria fission, generates C18 ceramides that anchor lipidated MAP1LC3B/LC3B-II autophagolysosomes to outer mitochondrial membranes to eliminate damaged mitochondria (PubMed:22922758).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein

References

Lee S.-J.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:4250-4254(1991).
Jiang J.C.,et al.Genome Res. 8:1259-1272(1998).
Grimwood J.,et al.Nature 428:529-535(2004).
Bienvenut W.V.,et al.Mol. Cell. Proteomics 11:M111.015131-M111.015131(2012).

Images



WB Suggested Anti-LASS1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: OVCAR-3 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.