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LASS6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17693B

Product Information

Application	WB, E
Primary Accession	Q6ZMG9
Other Accession	NP_982288.1
Reactivity	Mouse, Rat, Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37704
Calculated MW	44890
Antigen Region	335-361

Additional Information

Gene ID	253782
Other Names	Ceramide synthase 6, CerS6, LAG1 longevity assurance homolog 6, CERS6, LASS6
Target/Specificity	This LASS6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 335-361 amino acids from the C-terminal region of human LASS6.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	LASS6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CERS6 (HGNC:23826)
Function	Ceramide synthase that catalyzes the transfer of the fatty 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, PubMed:39528795). Can use different sphingoid bases as substrates for ceramide synthesis, such as sphinganine in de novo synthesis, and sphing-4E-enine (sphingosine), (4R)-hydroxysphinganine (phytosphingosine) or sphinga-4E,14Z-dienine in salvage pathways (PubMed:17977534, PubMed:23530041, PubMed:26887952, PubMed:31916624). Other fatty acyl-CoAs such as long-chain saturated stearoyl-CoA (octadecanoyl-CoA; C18:0-CoA), myristoyl-CoA (tetradecanoyl-CoA; C14:0- CoA), and monounsaturated oleoyl-CoA (9Z-octadecenoyl-CoA; C18:1-CoA) can also act as acyl donors, but with less efficiency than hexadecanoyl-CoA (PubMed:39528795). 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}

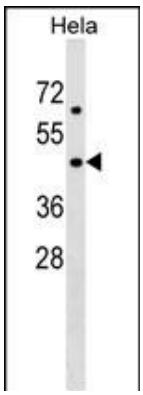
Background

LASS6 may be involved in sphingolipid synthesis or its regulation (By similarity).

References

Mesicek, J., et al. Cell. Signal. 22(9):1300-1307(2010)
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Yacoub, A., et al. Cancer Res. 70(3):1120-1129(2010)
Erez-Roman, R., et al. Biochem. Biophys. Res. Commun. 391(1):219-223(2010)
Senkal, C.E., et al. FASEB J. 24(1):296-308(2010)

Images



LASS6 Antibody (C-term) (Cat. #AP17693b) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the LASS6 antibody detected the LASS6 protein (arrow).

Citations

- y-Tocotrienol induces apoptosis in pancreatic cancer cells by upregulation of ceramide synthesis and modulation of sphingolipid transport.

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