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LASS6 Rabbit pAb

Catalog # AP97793

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6ZMG9
Other Accession	Q6ZMG9
Reactivity	Rat, Human, Mouse
Predicted	Pig, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44890
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LASS6
Epitope Specificity	31-130/384
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 homeobox DNA-binding domain. Contains 1 TLC (TRAM/LAG1/CLN8) domain.
Post-translational modifications	Glycosylation on Asn-18 is not necessary for function
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The LASS (longevity-assurance homologue) family members, which are highly conserved among eukaryotes, function in ceramide synthesis. LASS6 (LAG1 homolog, ceramide synthase 6) may be involved in sphingolipid synthesis or its regulation.

Additional Information

Gene ID	253782
Other Names	CERS5; LASS6; 4732462C07Rik; T1L; RGD1561599; CERS6_HUMAN; CERS6; LAG1 longevity assurance homolog 6; Sphingoid base N-palmitoyltransferase CERS6; CERS6_MOUSE; 2.3.1.-; ceramide synthase 6; LAG1 longevity assurance homolog 6 (S. cerevisiae); LAG1 homolog, ceramide synthase 6
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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}

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