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Ceramide synthase 2 Rabbit pAb

Catalog # AP97838

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q96G23
Other Accession	Q96G23
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44876
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LASS2
Epitope Specificity	201-300/380
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	LASS2 (LAG1 homolog, ceramide synthase 2) has sequence similarity to yeast longevity assurance gene 1. It is thought to be involved in sphingolipid synthesis. Expression of LASS2 is transiently increased during the period of active myelination and is specifically localized to white matter tracts of the brain, including the Schwann cells of sciatic nerves suggesting that LASS2 is important for the synthesis of dihydroceramide used for synthesis of myelin sphingolipids. Expression of LASS2 in hepatocellular carcinoma cell lines suppresses the growth of cancer cells.

Additional Information

Gene ID	29956
Other Names	L3; LASS2; SP260; TMSG1; 0610013I17Rik; TRH3; CERS2_HUMAN; CERS2; LAG1 longevity assurance homolog 2; Sphingosine N-acyltransferase CERS2; Tumor metastasis-suppressor gene 1 protein; Very-long-chain ceramide synthase CERS2; CERS2_MOUSE; Translocating chain-associating membrane protein homolog 3 (TRAM homolog 3); ceramide synthase 2; longevity assurance (LAG1, S. cerevisiae) homolog 2; LAG1 longevity assurance homolog 2 (S. cerevisiae); LAG1 homolog, ceramide synthase 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	CERS2 {ECO:0000303|PubMed:17977534, ECO:0000312|HGNC:HGNC:14076}
Function	Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward very-long-chain fatty acyl-CoA (chain length C22-C27) (PubMed:17977534, PubMed:18165233, PubMed:18541923, PubMed:19728861, PubMed:20937905, PubMed:22144673, PubMed:22661289, PubMed:26887952, PubMed:29632068). N- acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (By similarity) (PubMed:17977534, PubMed:18165233, PubMed:18541923, PubMed:19728861, PubMed:20937905, PubMed:22144673, PubMed:22661289, PubMed:26887952, PubMed:29632068). Plays a non-redundant role in the synthesis of ceramides with very-long-chain fatty acids in kidney, liver and brain. Regulates the abundance of myelin-specific sphingolipids galactosylceramide and sulfatide that affects myelin sheath architecture and motor neuron functions (By similarity).
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed in kidney, liver, brain, heart, placenta and lung.

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