

LASS3 Rabbit pAb

Catalog # AP97573

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IU89
Other Accession	Q8IU89
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46316
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LASS3
Epitope Specificity	1-100/383
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	LASS3 is a 383 amino acid membrane protein almost exclusively expressed in testis, suggesting that LASS3 plays an important role in proper testis function. It is also weakly expressed in skin. A transcriptional variant of LASS3 cDNA exists and can result in the production of a 419 amino acid protein (LASS3-long). LASS3 overproduction raises the level of several ceramide species, including C18:0- and C24:0-ceramides.

Additional Information

Gene ID	204219
Other Names	ARCI9; LASS3; 4930550L11Rik; Gm488; T3L; mCerS3; RGD1564356; CERS3_HUMAN; CERS3; Dihydroceramide synthase 3; LAG1 longevity assurance homolog 3; Sphingosine N-acyltransferase CERS3; Ultra-long-chain ceramide synthase CERS3; Very-long-chain ceramide synthase CERS3; ceramide synthase 3; LAG1 longevity assurance homolog 3 (S. cerevisiae); LAG1 homolog, ceramide synthase 3
Dilution	IHC-P=1:400-800,IHC-F=1:400-800,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	CERS3 {ECO:0000303 PubMed:17977534, ECO:0000312 HGNC:HGNC:23752}
Function	Ceramide synthase that catalyzes the transfer of the acyl chain from acyl-CoA to a sphingoid base, with high selectivity toward very- and ultra-long-chain fatty acyl-CoA (chain length greater than C22) (PubMed: 17977534 , PubMed: 22038835 , PubMed: 26887952). N-acylates sphinganine and sphingosine bases to form dihydroceramides and ceramides in de novo synthesis and salvage pathways, respectively (PubMed: 17977534 , PubMed: 22038835 , PubMed: 26887952). It is crucial for the synthesis of ultra-long-chain ceramides in the epidermis, to maintain epidermal lipid homeostasis and terminal differentiation (PubMed: 23754960).
Cellular Location	Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:Q1A3B0}; Multi-pass membrane protein
Tissue Location	Expressed in the epidermis, where it localizes at the interface between the stratum granulosum and the stratum corneum (at protein level).

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