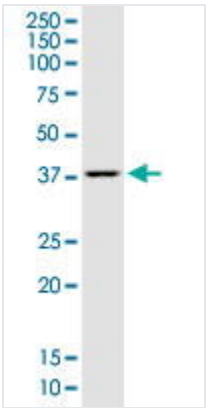
LASS1 Antibody – Mouse Monoclonal

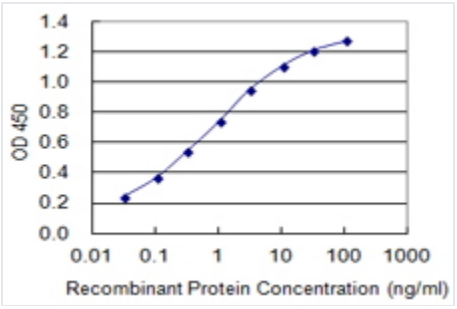
PRODUCT OVERVIEW

Product Name	LASS1, Monoclonal Antibody
Full Product Name	LASS1 (LAG1 Homolog, Ceramide Synthase 1, CerS1, LAG1, MGC90349, UOG1) (APC)
Product Gene Name	anti-LASS1 antibody
Product Synonym Names	LAG1 Homolog; Ceramide Synthase 1; CerS1; LAG1; MGC90349; UOG1
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3F9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified
Specificity	Recognizes LASS1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39536
Chromosome Location	Chromosome: 19; NC_000019.9 (18979361..19006953, complement). Location: 19p12
OMIM	606919
3D Structure	ModBase 3D Structure for P27544
Immunogen	LASS1 (NP_067090.1, 301aa-350aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	YIVAFAAKVLTGQVHELKDLREYDTAEAQSLKPSKAEKPLRNGLVKDKRF
Conjugate	APC
Product Categories/Family for anti-LASS1 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-LASS1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-LASS1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-LASS1 antibody	This gene encodes a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site that is cleaved to produce a mature protein containing seven conserved cysteine residues. Members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in yeast suggest that the encoded protein is involved in aging. This protein is transcribed from a monocistronic mRNA as well as a bicistronic mRNA, which also encodes growth differentiation factor 1. [provided by RefSeq]
Other Notes	Small volumes of anti-LASS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for LASS1 purchase	MBS6170301 is an antibody targeting LASS1. Also known as LASS1 (LAG1 Homolog, Ceramide Synthase 1, CerS1, LAG1, MGC90349, UOG1) (APC). Host: Mouse.



Western Blot (WB) of anti-LASS1 antibody
LASS1 monoclonal antibody (M04), clone 3F9. Western Blot analysis of LASS1 expression in HepG2.



Testing Data of anti-LASS1 antibody
Detection limit for recombinant GST tagged LASS1 is 0.03 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LASS1. It may not necessarily be applicable to this product.

NCBI GI #	11641421
NCBI GeneID	10715
NCBI Accession #	NP_067090.1
UniProt Primary Accession #	P27544
UniProt Related Accession #	P27544
GenBank Nucleotide #	NM_021267.3
NCBI Official Full Name	ceramide synthase 1 isoform 1
NCBI Official Synonym Full Names	ceramide synthase 1
NCBI Official Symbol	CERS1
NCBI Official Synonym Symbols	LAG1; UOG1; LASS1
UniProt Protein Name	Ceramide synthase 1
UniProt Synonym Protein Names	LAG1 longevity assurance homolog 1; Longevity assurance gene 1 protein homolog 1; Protein UOG-1
UniProt Gene Name	CERS1
UniProt Synonym Gene Names	LAG1; LASS1; UOG1; CerS1
UniProt Entry Name	CERS1_HUMAN
NCBI Protein Information	ceramide synthase 1; protein UOG-1; upstream of GDF1; longevity assurance gene 1 protein homolog 1; longevity assurance (LAG1, S. cerevisiae) homolog 1

UniProt Comments for LASS1	Function: May be either a bona fide (dihydro)ceramide synthase or a modulator of its activity. When overexpressed in cells is involved in the production of sphingolipids containing mainly one fatty acid donor (N-linked stearoyl- (C18) ceramide) in a fumonisin B1-independent manner By similarity. Subcellular location: Endoplasmic reticulum membrane; Multi-pass membrane protein By similarity. Isoform 1: Endoplasmic reticulum membrane; Multi-pass membrane protein By similarity. Golgi apparatus membrane; Multi-pass membrane protein By similarity. Note: Isoform 1 may recycle from the Golgi to the endoplasmic reticulum. Miscellaneous: This protein is produced by a bicistronic gene which also produces the GDF1 protein from a non-overlapping reading frame. Sequence similarities: Contains 1 TLC (TRAM/LAG1/CLN8) domain.
Research Articles on LASS1	**1.** This study highlights a close interaction between CLN5/CLN8 proteins, and their role in sphingolipid metabolism. Our findings suggest that CLN5p/CLN8p most likely are positive modulators of CerS1 and/or CerS2.
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