Acid Sphingomyelinase (ASM) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Acid Sphingomyelinase (ASM), ELISA Kit
Full Product Name	Human Acid Sphingomyelinase ELISA Kit
Product Gene Name	ASM elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	69,752 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (6411644..6416228). Location: 11p15.4-p15.1
OMIM	257200
3D Structure	ModBase 3D Structure for P17405
Related Product Information for ASM elisa kit	MBS040057 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Acid Sphingomyelinase (ASM) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ASM. The ELISA analytical biochemical technique of the MBS040057 kit is based on ASM antibody-ASM antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ASM antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ASM. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ASM elisa kit 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.

ADDITIONAL DETAILS

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

NCBI GI #	179095
NCBI GeneID	6609
NCBI Accession #	AAA58377.1
UniProt Primary Accession #	P17405
UniProt Secondary Accession #	P17406; Q13811; Q16837; Q16841; A8K8M3; E9PKS3
UniProt Related Accession #	P17405
NCBI Official Full Name	acid sphingomyelinase
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 1, acid lysosomal
NCBI Official Symbol	SMPD1
NCBI Official Synonym Symbols	ASM; NPD; ASMASE
UniProt Protein Name	Sphingomyelin phosphodiesterase
UniProt Synonym Protein Names	Acid sphingomyelinase

Protein Family	Acid sphingomyelinase-like phosphodiesterase
UniProt Gene Name	SMPD1
UniProt Synonym Gene Names	ASM; aSMase
UniProt Entry Name	ASM_HUMAN
NCBI Protein Information	sphingomyelin phosphodiesterase; acid sphingomyelinase
NCBI Summary for ASM	The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2010]
UniProt Comments for ASM	SMPD1: Converts sphingomyelin to ceramide. Also has phospholipase C activities toward 1,2-diacylglycerolphosphocholine and 1,2-diacylglycerolphosphoglycerol. Isoform 2 and isoform 3 have lost catalytic activity. Monomer. Belongs to the acid sphingomyelinase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Phosphodiesterase; Lipid Metabolism - sphingolipid; EC 3.1.4.12 Chromosomal Location of Human Ortholog: 11p15.4-p15.1 Cellular Component: extracellular space; lysosomal lumen; lysosome; plasma membrane; endosome; lamellar body Molecular Function: protein binding; sphingomyelin phosphodiesterase activity; hydrolase activity, acting on glycosyl bonds Biological Process: response to drug; negative regulation of MAP kinase activity; nervous system development; sphingolipid metabolic process; sphingomyelin metabolic process; positive regulation of apoptosis; ceramide biosynthetic process; glycosphingolipid metabolic process; sphingomyelin catabolic process; signal transduction; response to cocaine; positive regulation of protein amino acid dephosphorylation Disease: Niemann-pick Disease, Type B; Niemann-pick Disease, Type A
Research Articles on ASM	**1.** Chinese population may have a comparably high incidence of sphingomyelinase-deficient Niemann-Pick disease type A. This study has identified some novel genotype and phenotype correlations in this rare and devastating disorder
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