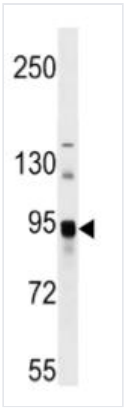
ASAH2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ASAH2, Polyclonal Antibody
Full Product Name	ASAH2, CT (ASAH2, HNAC1, Neutral ceramidase, Acylsphingosine deacylase 2, BCDase, LCDase, N-acylsphingosine amidohydrolase 2, Non-lysosomal ceramidase, Neutral ceramidase soluble form) (MaxLight 550)
Product Gene Name	anti-ASAH2 antibody
Product Synonym Names	ASAH2; HNAC1; Neutral ceramidase; Acylsphingosine deacylase 2; BCDase; LCDase; N-acylsphingosine amidohydrolase 2; Non-lysosomal ceramidase; Neutral ceramidase soluble form
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human ASAH2. Species Crossreactivity: mouse
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	18,026 Da
OMIM	611202
3D Structure	ModBase 3D Structure for Q9NR71
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 734-762 in the C-terminal region of human ASAH2, UniProt Accession #NP_001072984.1; Q9NR71; P0C7U2; P0C7U1.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-ASAH2 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-ASAH2 antibody	Western Blot (WB), FLISA
Application Notes for anti-ASAH2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ASAH2 antibody	Ceramidases (EC 3.5.1.23), such as ASAH2, catalyze hydrolysis of the N-acyl linkage of ceramide, a second messenger in a variety of cellular events, to produce sphingosine. Sphingosine exerts both mitogenic and apoptosis-inducing activities, and its phosphorylated form functions as an intra-and intercellular second messenger (see MIM 603730) (Mitsutake et al., 2001 [PubMed 11328816]).
Product References and Citations for anti-ASAH2 antibody	1. Uchida, Y., et al. J. Invest. Dermatol. 130(10):2472-2480(2010). 2. Hong, K.K., et al. J. Korean Med. Sci. 22(5):862-867(2007). 3. Ohlsson, L., et al. Biochimie 89(8):950-960(2007). 4. Avramopoulos, D., et al. Neurogenetics 8(2):111-120(2007). 5. Galadari, S., et al. Biochem. J. 393 (PT 3), 687-695 (2006).

Other Notes	Small volumes of anti-ASAH2 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 ASAH2 purchase	MBS6275475 is an antibody targeting ASAH2. Also known as ASAH2, CT (ASAH2, HNAC1, Neutral ceramidase, Acylsphingosine deacylase 2, BCDase, LCDase, N-acylsphingosine amidohydrolase 2, Non-lysosomal ceramidase, Neutral ceramidase soluble form) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-ASAH2 antibody
Western Blot analysis in mouse bladder tissue lysates (35ug/lane) usingMBS6005122. This demonstrates that MBS6005122 detected the ASAH2 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ASAH2. It may not necessarily be applicable to this product.

NCBI GI #	118442845
NCBI GeneID	653308
NCBI Accession #	NP_001072984.1
UniProt Primary Accession #	Q9NR71
UniProt Secondary Accession #	P0C7U2; P0C7U1
UniProt Related Accession #	P0C7U1
GenBank Nucleotide #	NM_001079516.3
NCBI Official Full Name	putative inactive neutral ceramidase B isoform 1
NCBI Official Synonym Full Names	N-acylsphingosine amidohydrolase 2B
NCBI Official Symbol	ASAH2B
NCBI Official Synonym Symbols	ASAH2C; ASAH2L; bA98I6.3; bA449O16.3
UniProt Protein Name	Neutral ceramidase
UniProt Synonym Protein Names	Acylsphingosine deacylase 2; BCDase; LCDase; hCD; N-acylsphingosine amidohydrolase 2; Non-lysosomal ceramidaseNeutral ceramidase soluble form
Protein Family	Neutral ceramidase
UniProt Gene Name	ASAH2
UniProt Synonym Gene Names	HNAC1; N-CDase; NCDase; hCD
UniProt Entry Name	ASAH2_HUMAN
NCBI Protein Information	putative inactive neutral ceramidase B

UniProt Comments for ASAH2	ASAH2: Hydrolyzes the sphingolipid ceramide into sphingosine and free fatty acid at an optimal pH of 6.5-8.5. Acts as a key regulator of sphingolipid signaling metabolites by generating sphingosine at the cell surface. Acts as a repressor of apoptosis both by reducing C16-ceramide, thereby preventing ceramide-induced apoptosis, and generating sphingosine, a precursor of the antiapoptotic factor sphingosine 1-phosphate. Probably involved in the digestion of dietary sphingolipids in intestine by acting as a key enzyme for the catabolism of dietary sphingolipids and regulating the levels of bioactive sphingolipid metabolites in the intestinal tract. Belongs to the neutral ceramidase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Hydrolase; EC 3.5.1.23; Lipid Metabolism - sphingolipid Chromosomal Location of Human Ortholog: 10q11.21 Cellular Component: mitochondrion; plasma membrane; integral to membrane Molecular Function: ceramidase activity Biological Process: sphingolipid metabolic process; apoptosis; glycosphingolipid metabolic process; ceramide metabolic process; signal transduction
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