

Rabbit anti-Human, mouse ASAH2 Polyclonal Antibody | anti-ASAH2 antibody

ASAH2 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288059	Rabbit	Human, mouse	ELISA, Western Blot

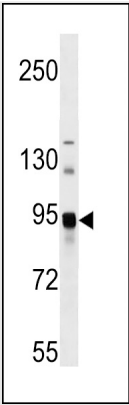
PRODUCT SYNONYMS

ASAH2; Polyclonal Antibody; ASAH2 Antibody (C-term); Neutral ceramidase; N-CDase; NCDase; Acylsphingosine deacylase 2; BCDase; LCDase; hCD; N-acylsphingosine amidohydrolase 2; Non-lysosomal ceramidase; Neutral ceramidase soluble form; HNAC1; anti-ASAH2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ASAH2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 734-762 amino acids from the C-terminal region of human ASAH2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	734-762
Sequence Length	745
Applicable Applications for anti-ASAH2 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	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.
Cellular Location	Cell membrane; Single-pass type II membrane protein. Note=The neutral ceramidase soluble form is a secreted protein. According to PubMed:10781606, it is mitochondrial. However, they used a shorter form in its N- terminus, which may explain this localization which probably does not exist in vivo
Tissue Location	Primarily expressed in the intestine (PubMed:17334805). Ubiquitously expressed with higher levels in kidney, skeletal muscle and heart (PubMed:10781606). According to PubMed:17334805, ubiquitous expression attributed to ASAH2 may be actually that of the paralog ASAH2B.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
ASA2 Antibody (C-term) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the ASA2 antibody detected the ASA2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ASA2 antibody	Ceramidases (EC 3.5.1.23), such as ASA2, 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 Categories/Family for anti-ASA2 antibody	Metabolism; Signal Transduction
References	Uchida, Y., et al. J. Invest. Dermatol. 130(10):2472-2480(2010) Hong, K.K., et al. J. Korean Med. Sci. 22(5):862-867(2007) Ohlsson, L., et al. Biochimie 89(8):950-960(2007) Avramopoulos, D., et al. Neurogenetics 8(2):111-120(2007) Galadari, S., et al. Biochem. J. 393 (PT 3), 687-695 (2006) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	221307475
NCBI GeneID	56624
NCBI Accession #	NP_001137446.1; NP_063946.2
NCBI GenBank Nucleotide #	NM_001143974.1
UniProt Accession #	Q9NR71; Q3KNU1; Q5SNT7; Q5SZP6; Q5SZP7; Q5T1D5; Q71ME6
Molecular Weight	85516
NCBI Official Full Name	neutral ceramidase isoform b
NCBI Official Synonym Full Names	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2
NCBI Official Symbol	ASA2
NCBI Official Synonym Symbols	HNAC1; BCDase; LCDase; NCDase; N-CDase
NCBI Protein Information	neutral ceramidase
UniProt Protein Name	Neutral ceramidase
UniProt Gene Name	ASA2

UniProt Synonym Gene Names	HNAC1; N-CDase; NCDase; hCD
UniProt Entry Name	ASAH2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/asah2-antibody-western-blot-elisa/288059>