NAAA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NAAA, Polyclonal Antibody
Full Product Name	NAAA, CT (NAAA, ASAHL, PLT, N-acylethanolamine-hydrolyzing acid amidase, Acid ceramidase-like protein, N-acylsphingosine amidohydrolase-like) (MaxLight 490)
Product Gene Name	anti-NAAA antibody
Product Synonym Names	NAAA; ASAHL; PLT; N-acylethanolamine-hydrolyzing acid amidase; Acid ceramidase-like protein; N-acylsphingosine amidohydrolase-like
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	40,066 Da
OMIM	607469
3D Structure	ModBase 3D Structure for Q02083
Immunogen	NAAA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 330-359 amino acids from the C-terminal region of human NAAA.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-NAAA antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-NAAA antibody	Western Blot (WB), FLISA
Application Notes for anti-NAAA antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NAAA antibody	This gene encodes an N-acylethanolamine-hydrolyzing enzyme which is highly similar to acid ceramidase. Multiple transcript variants encoding different isoforms have been found for this gene.
Product References and Citations for anti-NAAA antibody	Wang, J., et al. J. Biochem. 144(5):685-690(2008). Muller, T.D., et al. Child Adolesc Psychiatry Ment Health 2 (1), 33 (2008): Schulze, H., et al. Biol. Chem. 388(12):1333-1343(2007). Zhao, L.Y., et al. Biochim. Biophys. Acta 1771(11):1397-1405(2007). Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005).
Other Notes	Small volumes of anti-NAAA 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 NAAA purchase	MBS6323633 is an antibody targeting NAAA. Also known as NAAA, CT (NAAA, ASAHL, PLT, N-acylethanolamine-hydrolyzing acid amidase, Acid ceramidase-like protein, N-acylsphingosine amidohydrolase-like) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	109148548
NCBI GeneID	27163
NCBI Accession #	NP_001035861.1
UniProt Primary Accession #	Q02083
UniProt Secondary Accession #	Q5KTF2; Q96EY2; Q9BRA8
UniProt Related Accession #	Q02083
GenBank Nucleotide #	NM_001042402.1
NCBI Official Full Name	N-acylethanolamine-hydrolyzing acid amidase isoform 2
NCBI Official Synonym Full Names	N-acylethanolamine acid amidase
NCBI Official Symbol	NAAA
NCBI Official Synonym Symbols	PLT; ASAHL
UniProt Protein Name	N-acylethanolamine-hydrolyzing acid amidase
UniProt Synonym Protein Names	Acid ceramidase-like protein; N-acylsphingosine amidohydrolase-like
Protein Family	5-nitroanthranilic acid aminohydrolase
UniProt Gene Name	NAAA
UniProt Synonym Gene Names	ASAHL; PLT; ASAH-like protein
UniProt Entry Name	NAAA_HUMAN
NCBI Protein Information	N-acylethanolamine-hydrolyzing acid amidase; ASAH-like protein; acid ceramidase-like protein
UniProt Comments for NAAA	ASAHL: Degrades bioactive fatty acid amides to their corresponding acids, with the following preference: N-palmitoylethanolamine > N-myristoylethanolamine > N- lauroylethanolamine = N-stearoylethanolamine > N-arachidonoylethanolamine > N-oleoylethanolamine. Also exhibits weak hydrolytic activity against the ceramides N-lauroylsphingosine and N-palmitoylsphingosine. Belongs to the acid ceramidase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.5.1.-; Hydrolase Chromosomal Location of Human Ortholog: 4q21.1 Cellular Component: lysosome; cytoplasm Molecular Function: hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds; transcription factor binding Biological Process: lipid metabolic process
Research Articles on NAAA	**1.** MALDI-TOF MS analysis of the human NAAA zymogen (47.7 kDa) treated with peptide-N-glycosidase F (PNGase F) identified 4 glycosylation sites, and acid cleavage of the zymogen into alpha- and beta-subunits (14.6 and 33.3 kDa) activated the enzyme.

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