

Product datasheet for **AM31723PU-N**

ASAH1 (25-125) Mouse Monoclonal Antibody [Clone ID: 1A7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1A7
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot: 1/500 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG3
Clonality:	Monoclonal
Immunogen:	ASAH1 antibody was raised against ASAH1 (NP_808592, 25 a.a. ~ 125 a.a) partial recombinant protein with GST tag
Specificity:	Recognizes Acid ceramidase ASAH1 at aa 25-125.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	N-acylsphingosine amidohydrolase (acid ceramidase) 1
Database Link:	Entrez Gene 427 Human Q13510



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Background:

Sphingolipids are hydrolyzed by ceramidases to yield sphingosine and fatty acids. These ceramidases are classified according to the pH range that supports their optimal activity. ASAH1 is an acid ceramidase and key regulator of ceramide metabolism. Mutations in this gene results in Farber Lipogranulomatosis, a fatal human genetic disorder that results in the painful swelling of the joints and tendons and pulmonary insufficiency, while a complete knockout of its expression is lethal in mice. Recent studies have shown elevated levels of ASAH1 in Alzheimer's disease (AD) patients correlating with a reduction in sphingomyelin and elevation of ceramide. Pretreatment of cultured neurons with recombinant ASAH1 prevented the cells from undergoing A-beta (Ab)-induced apoptosis. Multiple isoforms of this protein are known to exist.

Synonyms:

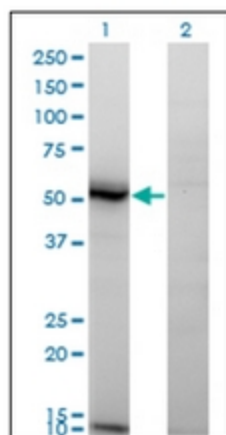
ASAH1, ASAH, Acylsphingosine deacylase, PHP32

Protein Families:

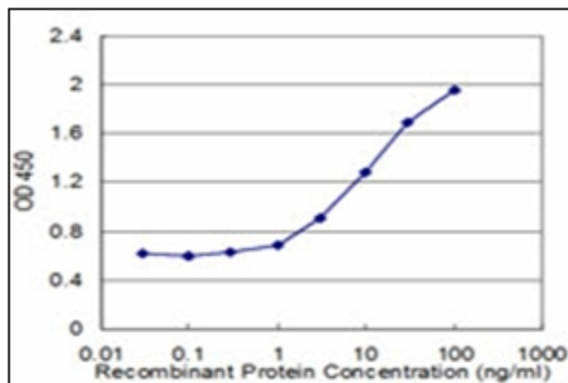
Druggable Genome

Protein Pathways:

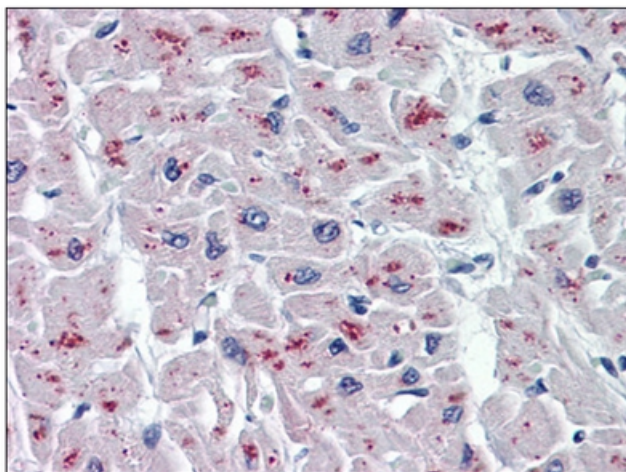
Lysosome, Metabolic pathways, Sphingolipid metabolism

Product images:

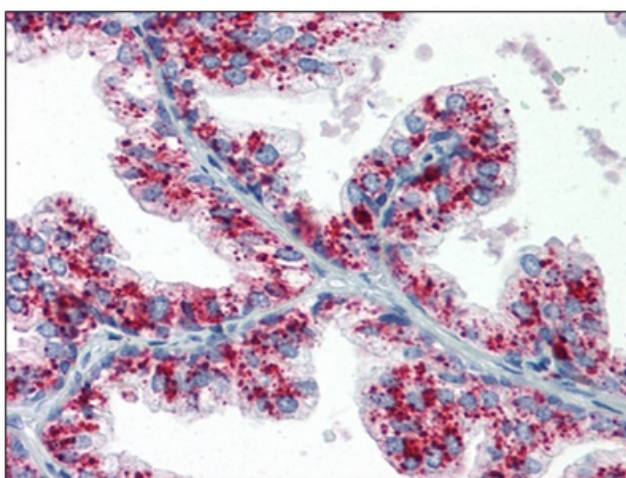
Western Blot analysis of ASAH1 expression in transfected 293T cell line. Lane 1: ASAH1 transfected lysate (45 KDa). Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ASAH1 is approximately 1 ng/ml as a capture antibody.



Human Heart: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)