



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Acid Ceramidase 1. Rabbit Antigen Immunoaffinity Purified Polyclonal
N-acylsphingosine amidohydrolase (Acid ceramidase) 1; ASAH1

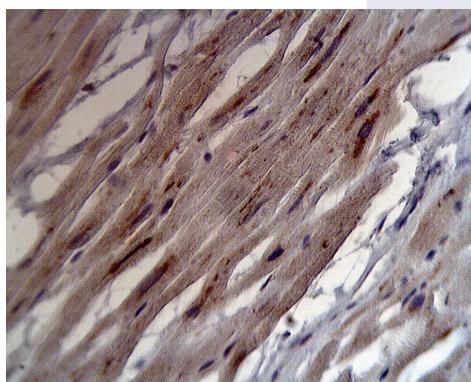
BACKGROUND

Acid ceramidase is a lipid hydrolyase responsible for the degradation of ceramide into sphingosine and free fatty acids within lysosomes. It can also synthesize ceramide from sphingosine and free fatty acids as well. The reverse activity is pH dependent (6.0 vs 4.5, respectively). This suggests that the enzyme may have diverse functions within cells dependent on its subcellular location and the local pH. Recent studies have shown that acid ceramidase activity is aberrantly expressed in several human cancers and that it might be a useful drug target. As an example, inhibitors of enzyme activity have been shown to slow the growth of cancer cells alone or in combination with other established, anti-oncogenic treatments. Aberrant activity has also been shown in Alzheimer's disease and overexpression may prevent insulin resistant (Type II) diabetes by free fatty acids.

IMMUNOGEN

Synthetic peptide derived from the C terminal region of the ASAH1 protein.

Immunohistochemical staining of human heart tissue using Acid Ceramidase 1 antibody at 10 µg/ml.



ORDERING INFORMATION

CATALOG NUMBER

X2668P

SIZE

10 Miniblots

FORM

Unconjugated

HOST/CLONE

Rabbit

FORMULATION

Provided as solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION

See vial for concentration

ISOTYPE

IgG

APPLICATIONS

Western Blotting, ELISA, Immunohistochemistry

SPECIES REACTIVITY

Human, Rat, Mouse

ACCESSION NUMBER

Rat	Q9EQJ6
Mouse	Q9WV54
Human	Q53H01

POSITIVE CONTROL/TISSUE EXPRESSION

Human heart tissue

COMMENTS

Antibody can be used for Western blotting (1-5 μ g/ml) and Immunohistochemistry on paraffin-embedded tissues (10 μ g/ml). Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES

1. Park, J.H., et al. 'Acid ceramidase and human disease.' *Biochim Biophys Acta* 2006; 1758:2133-2138.
2. Zeidan, Y.H., et al. 'Acid ceramidase but not acid sphingomyelinase is required for tumor necrosis factor- α -induced PGE2 production.' *J. Biol. Chem.* 2006; 281:24695-24703.
3. Shtraizent, N., et al. 'Autoproteolytic cleavage and activation of human acid ceramidase.' *J. Biol. Chem.* 2008; 283:11253-11259.

PRODUCT SPECIFIC REFERENCES