10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

GM2A Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS11174

Specification

GM2A Antibody (Internal) - Product Information

Application	**IHC-P**
Primary Accession	P17900
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**21kDa KDa**
Dilution	**IHC-P~~N/A**

GM2A Antibody (Internal) - Additional Information

Gene ID 2760

Other Names
Ganglioside GM2 activator, Cerebroside sulfate activator protein, GM2-AP, Sphingolipid activator protein 3, SAP-3, Ganglioside GM2 activator isoform short, GM2A

Target/Specificity
Human GM2A. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
GM2A Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

GM2A Antibody (Internal) - Protein Information

Name GM2A (HGNC:4367)

Function
The large binding pocket can accommodate several single chain phospholipids and fatty acids, GM2A also exhibits some calcium- independent phospholipase activity (By similarity). Binds gangliosides and stimulates ganglioside GM2 degradation. It stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A. It extracts single GM2 molecules from membranes and presents them in soluble form to beta-hexosaminidase A for cleavage of N-acetyl-D- galactosamine and conversion to GM3 (By similarity). Has cholesterol transfer activity (PubMed:17552909).

Cellular Location
Lysosome.

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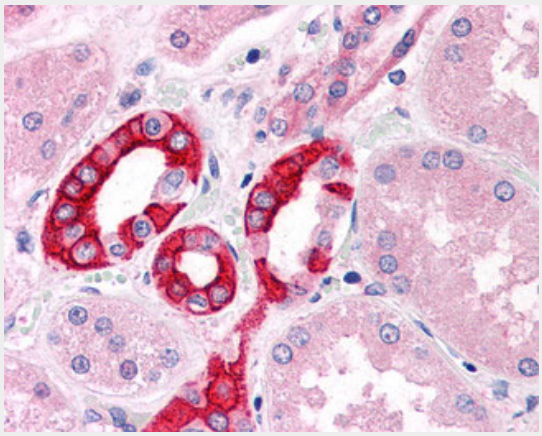
GM2A Antibody (Internal) - Protocols

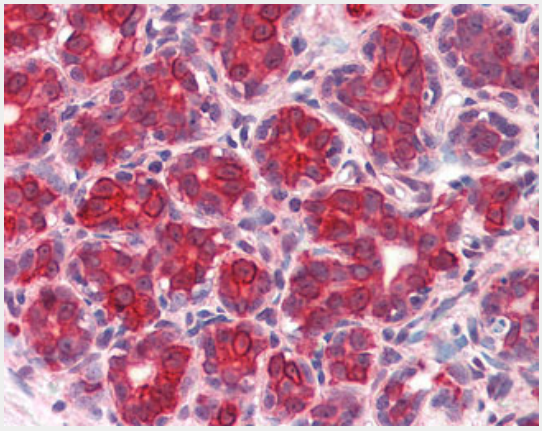
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GM2A Antibody (Internal) - Images



Anti-GM2A antibody ALS11174 IHC of human kidney.



Anti-GM2A antibody ALS11174 IHC of human breast.

GM2A Antibody (Internal) - Background

The large binding pocket can accommodate several single chain phospholipids and fatty acids, GM2A also exhibits some calcium-independent phospholipase activity (By similarity). Binds gangliosides and stimulates ganglioside GM2 degradation. It stimulates only the breakdown of ganglioside GM2 and glycolipid GA2 by beta-hexosaminidase A. It extracts single GM2 molecules from membranes and presents them in soluble form to beta- hexosaminidase A for cleavage of N-acetyl-D-galactosamine and conversion to GM3.

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GM2A Antibody (Internal) - References

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Klima H.,et al.FEBS Lett. 289:260-264(1991).
Nagarajan S.,et al.Biochem. J. 282:807-813(1992).
Xie B.,et al.Genomics 14:796-798(1992).
Ota T.,et al.Nat. Genet. 36:40-45(2004).