

GM2A (aa 164-175) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3349a**Specification**

GM2A (aa 164-175) Antibody (internal region) - Product Information

Application	WB
Primary Accession	P17900
Other Accession	NP_000396.2 , 2760 , 14667 (mouse) , 282838 (rat)
Reactivity	Human, Rat
Predicted	Mouse, Rabbit
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	20838

GM2A (aa 164-175) Antibody (internal region) - 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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GM2A (aa 164-175) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

GM2A (aa 164-175) Antibody (internal region) - 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

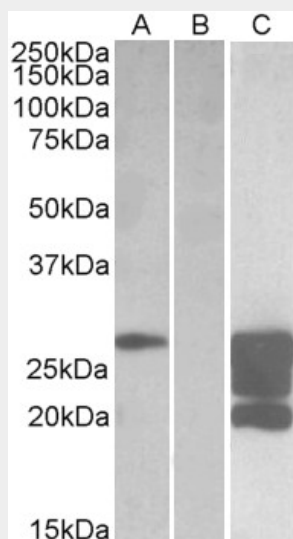
Lysosome.

GM2A (aa 164-175) Antibody (internal region) - Protocols

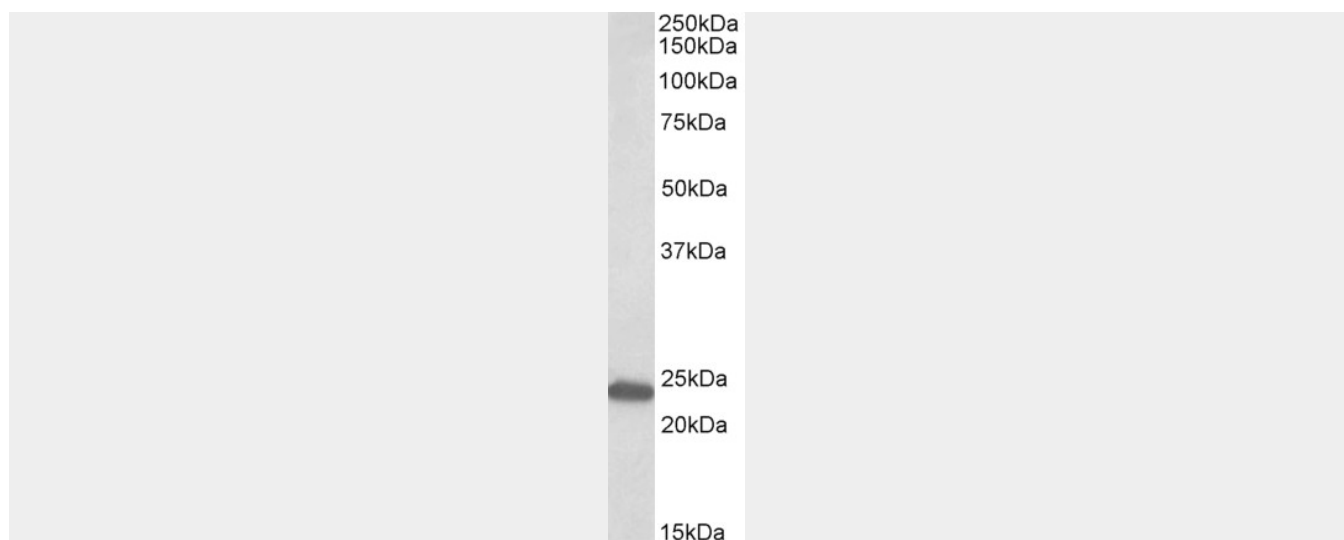
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GM2A (aa 164-175) Antibody (internal region) - Images



HEK293 lysate (10ug protein in RIPA buffer) overexpressing Human GM2A with DYKDDDDK tag probed with AF3349a (1.0ug/ml) in Lane A and probed with anti- DYKDDDDK Tag (1/30000) in lane C. Mock-transfected HEK293 probed with AF3349a (1mg/ml) in Lane B. Primary incubations were for 1 hour. Detected by chemiluminescence.



AF3349a (0.3 µg/ml) staining of Rat Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

GM2A (aa 164-175) Antibody (internal region) - Background

This antibody is expected to recognize isoform 1 (NP_000396.2) only.

GM2A (aa 164-175) Antibody (internal region) - References

Ganglioside GM2-tetraspanin CD82 complex inhibits met and its cross-talk with integrins, providing a basis for control of cell motility through glycosynapse. Todeschini AR, Dos Santos JN, Handa K, Hakomori SI, The Journal of biological chemistry 2007 Mar 282 (11): 8123-33. PMID: 17215249