ARG58908
anti-GM2A antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GM2A
Tested Reactivity	Rat
Predict Reactivity	Hu, Ms
Tested Application	WB
Specificity	This antibody is expected to recognize isoform 1 (NP_000396.2) only.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	GM2A
Species	Human
Immunogen	Synthetic peptide from the internal region of Human GM2A. (NP_000396.2) (C-TTGNYRIESVLS)
Conjugation	Un-conjugated
Alternate Names	Ganglioside GM2 activator; SAP-3; Cerebroside sulfate activator protein; GM2-AP; Sphingolipid activator protein 3

Application Instructions

Application table

Application	Dilution
WB	0.3 - 1 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

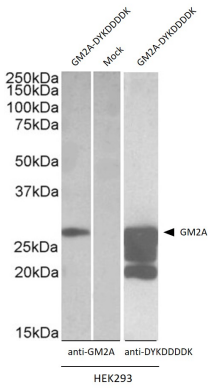
Form	Liquid
Purification	Affinity purified
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

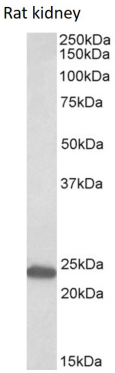
Gene Symbol	GM2A
Gene Full Name	GM2 ganglioside activator
Background	This gene encodes a small glycolipid transport protein which acts as a substrate specific co-factor for the lysosomal enzyme beta-hexosaminidase A. Beta-hexosaminidase A, together with GM2 ganglioside activator, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]
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. [UniProt]
Calculated Mw	21 kDa
PTM	The serines in positions 32 and 33 are absent in 80% of the sequenced protein. [UniProt]
Cellular Localization	Lysosome. [UniProt]

Images



ARG58908 anti-GM2A antibody WB image

Western blot: 10 ug of HEK293 cell lysate (in RIPA buffer) overexpressing Human GM2A with DYKDDDDK tag stained with ARG58908 anti-GM2A antibody at 1 ug/ml dilution (Lane 1) and stained with anti-DYKDDDDK tag at 1:30000 dilution (Lane 3). Mock-transfected HEK293 stained with ARG58908 anti-GM2A antibody at 1 ug/ml dilution (Lane 2). Primary antibodies incubated at RT for 1 hour.



ARG58908 anti-GM2A antibody WB image

Western blot: 35 µg of Rat kidney lysate (in RIPA buffer) stained with ARG58908 anti-GM2A antibody at 0.3 µg/ml dilution and incubated at RT for 1 hour.