




Product datasheet

Anti-GM2A antibody ab113416

1 Image

Overview

| | |
|----------------------------|---|
| Product name | Anti-GM2A antibody |
| Description | Goat polyclonal to GM2A |
| Host species | Goat |
| Tested applications | Suitable for: WB |
| Species reactivity | Reacts with: Rat Predicted to work with: Mouse  |
| Immunogen | Synthetic peptide corresponding to Human GM2A aa 150-250 (internal sequence). Database link: NP_000396.2  Run BLAST with  Run BLAST with |
| Positive control | WB: Rat Kidney lysate |
| General notes | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Storage buffer | pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA |
| Purity | Immunogen affinity purified |
| Purification notes | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab113416 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 21 kDa. A 1 hour primary incubation is recommended for this product. |

Target

Function

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.

Involvement in disease

Defects in GM2A are the cause of GM2-gangliosidosis type AB (GM2GAB) [MIM:272750]; also known as Tay-Sachs disease AB variant. GM2-gangliosidosis is an autosomal recessive lysosomal storage disease marked by the accumulation of GM2 gangliosides in the neuronal cells. GM2GAB is characterized by GM2 gangliosides accumulation in the presence of both hexosaminidase A and B.

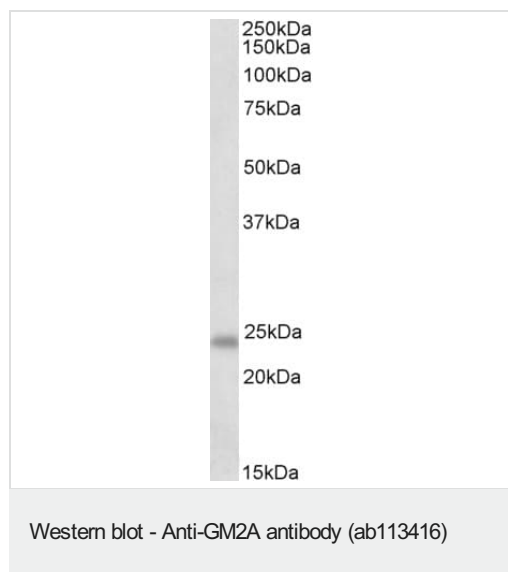
Post-translational modifications

The serines in positions 32 and 33 are absent in 80% of the sequenced protein.

Cellular localization

Lysosome.

Images



ab113416 at 0.3 µg/ml + Rat kidney lysate at 35 µg

Predicted band size: 21 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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