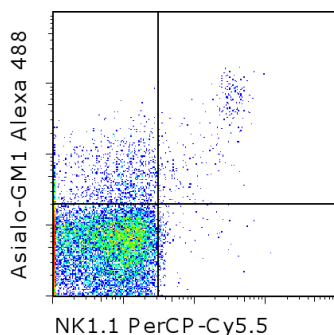


Anti-Asialo-GM1 Alexa Fluor® 488

Catalog Number: 53-6507

Also known as: asialo ganglio-N-tetraosylceramide

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Mouse NK1.1 PerCP-Cy5.5 (cat. 45-5941) and 0.25 ug of Anti-Asialo-GM1 Alexa Fluor® 488. Total viable cells were used for analysis.

Product Information



Contents: Anti-Asialo-GM1 Alexa Fluor® 488

Catalog Number: 53-6507

Clone: Polyclonal

Concentration: 0.5 mg/mL

Host/Isotype: Rabbit IgG



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.



Batch Code: Refer to vial



Use By: Refer to vial

Description

This rabbit polyclonal antibody reacts with the asialo ganglio-N-tetraosylceramide (asialo-GM1), a glycolipid on human, mouse, rat, bovine and hamster cells. Glycolipids such as this sialyated version are defined by the specific transferases that modify the lipid. Glycolipids are targets of immune cell response. Auto-antibodies have also been identified. Additionally these glycolipids can act as co-receptors for pathogens. Asialo-GM1 is present on both NK cells and a subset of monocyte/macrophages from the mouse spleen. Expression is also found on rat and bovine brain, fetal liver and on fetal immature thymocytes. Expression has also been shown to increase with tumor progression. The antibody recognizes asialo-GM1 specifically and not other glycolipids, including GM1 and asialo-GM2.

This antibody has been reported to deplete NK cells in mice and hamsters *in vivo* and exhibits *in vitro* effects in a variety of species.

Applications Reported

This polyclonal antibody has been reported for use in flow cytometric analysis.

Applications Tested

This polyclonal antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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mediated IL-8 release by human corneal epithelial cells requires coexpression of TLR5. Invest Ophthalmol Vis Sci. 2006 Nov;47(11):4810-8.(FC, ICC, human)

Takeichi N, Li XB, Hamada J, Kobayashi H. Age-related decrease of pulmonary metastasis of rat mammary carcinoma by activated natural resistance. Cancer Immunol Immunother. 1990;31(2):81-5.

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Young WW Jr, Hakomori SI, Durdik JM, Henney CS. Identification of ganglio-N-tetraosylceramide as a new cell surface marker for murine natural killer (NK) cells. J Immunol. 1980 Jan;124(1):199-201.

Related Products

12-0112 Anti-Mouse CD11b PE (M1/70)

16-6507 Anti-Asialo-GM1 Functional Grade Purified (Polyclonal)

17-5971 Anti-Mouse CD49b (Integrin alpha 2) APC (DX5)

45-5941 Anti-Mouse NK1.1 PerCP-Cy5.5 (PK136)

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