Anti-Asialo-GM1 Functional Grade Purified

Catalog Number: 16-6507  
Also known as: asialo ganglio-N-tetraosylceramide  

![Graphs of NK1.1 PerCP-Cy5.5 and CD11b APC](image)

Staining of C57Bl/6 splenocytes with Anti-Mouse NK1.1 PerCP-Cy5.5 (cat. 45-5941) (left) or Anti-Mouse CD11b APC (cat. 17-0112) (right) and Anti-Asialo-GM1 Functional Grade Purified. An Anti-Rabbit PE (cat. 12-4739) was used for detection. Total viable cells were used for analysis.

### Product Information

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<th>Contents:</th>
<th>Anti-Asialo-GM1 Functional Grade Purified</th>
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<tr>
<td>Catalog Number:</td>
<td>16-6507</td>
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<tr>
<td>Clone:</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Host/Isotype:</td>
<td>Rabbit Ig</td>
</tr>
<tr>
<td>Handling Conditions:</td>
<td>It is recommended to add 1 mL of sterile (endotoxin free) room temperature water. After reconstitution pass through 0.22 um filter prior to injection.</td>
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<tr>
<td>Endotoxin:</td>
<td>Less than 0.001 ng/ug antibody, as determined by the LAL assay.</td>
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<tr>
<td>Formulation:</td>
<td>lyophilized</td>
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<tr>
<td>Temperature Limitation:</td>
<td>Store at 2-8°C.</td>
</tr>
<tr>
<td>Batch Code:</td>
<td>Refer to vial</td>
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<tr>
<td>Use By:</td>
<td>Refer to vial</td>
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### 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 sialylated 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

Note: This product is lyophilized serum and upon reconstitution a small amount of precipitate may be observed. After addition of sterile water, allow to reconstitute for at least 30 minutes with gentle agitation. To clarify, sterile filter just prior to injection.

This polyclonal antibody has been reported for use in flow cytometric analysis, depletion of NK cells, and in vitro functional studies. Intravenous and IP injection of 20-50 uL has been shown to decrease NK1.1 populations after 3-4 days. Repeat injections may be necessary.

### Applications Tested

This polyclonal antibody against asialo-GM1 has been tested by flow cytometric analysis of mouse splenocytes. Optimal staining concentration will vary depending on the lot. It is recommended that the antibody be carefully titrated.
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for optimal performance in the assay of interest.

References


Related Products

11-4301 Rat IgG1 K Isotype Control FITC (eBRG1)
11-5971 Anti-Mouse CD49b (Integrin alpha 2) FITC (DX5)
12-0112 Anti-Mouse CD11b PE (M1/70)
12-4799 F(ab’)2 Donkey Anti-Rabbit IgG PE (polyclonal)
16-5941 Anti-Mouse NK1.1 Functional Grade Purified (PK136)
48-5941 Anti-Mouse NK1.1 eFluor® 450 (PK136)