Mouse Anti-Human CD56

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>9456-01</td>
<td>Purified (UNLB)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>9456-02</td>
<td>Fluorescein (FITC)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-02S</td>
<td>Fluorescein (FITC)</td>
<td>25 tests</td>
</tr>
<tr>
<td>9456-08</td>
<td>Biotin (BIOT)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-09</td>
<td>R-phycoerythrin (PE)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-09S</td>
<td>R-phycoerythrin (PE)</td>
<td>25 tests</td>
</tr>
<tr>
<td>9456-13</td>
<td>Spectral Red® (SPRD)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-16</td>
<td>R-phycoerythrin-Cyanine 5.5 (PE/CY5.5)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-26</td>
<td>Pacific Blue™ (PACBLU)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-27</td>
<td>Alexa Fluor® 700 (AF700)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9456-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
<td>100 tests</td>
</tr>
</tbody>
</table>

Overview

Clone: MEM 188  
Isotype: Mouse IgG2aκ  
Immunogen: Acute myelogenous leukemia cell line KG-1  
Specificity: Human/Porcine CD56; Mr 175-220 kDa  
Alternate Name(s): NCAM, neural cell adhesion molecule, Leu-19, NKH1  
Workshop: VI NK26, A055; VII 70077

Description

CD56, an isoform of the neural cell adhesion molecule (NCAM), is a heavily glycosylated type I transmembrane protein. On human hematopoietic cells its expression is restricted to NK cells and a subpopulation of T lymphocytes (known as large granular lymphocytes) which demonstrate natural killer activity. While it is clear that NCAM plays a role in homotypic adhesion of neuronal cells, the significance of CD56 expression on NK cells is not clear and remains controversial.

Applications

FC – Quality tested 1,6-9  
IHC-FS – Reported in literature 1  
ICC – Reported in literature 2  
Sep – Reported in literature 3,4  
Block – Reported in literature 5

Working Dilutions

Flow Cytometry

Purified (UNLB) antibody ≤ 1 µg/10^6 cells  
FITC, BIOT, PE, SPRD, PE/CY5.5, PACBLU, AF488, and AF700 conjugates 10 µL/10^6 cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

Other Applications

Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD) and R-phycoerythrin-Cyanine 5.5 (PE/CY5.5) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN3. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References

5. Kos FJ, Chin CS. Costimulation of T cell receptor-triggered IL-2 production by Jurkat T cells via fibroblast growth factor receptor 1 upon its engagement by CD56. ImmunoL Cell Biol. 2002;80:364-9. (Block)

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Spectral Red® is a PE/CY5 tandem conjugate.
Cy® is a registered trademark of GE Healthcare.
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