Mouse Anti-Human CD44

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>9400-01</td>
<td>Purified (UNLB)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>9400-02</td>
<td>Fluorescein (FITC)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-02S</td>
<td>Fluorescein (FITC)</td>
<td>25 tests</td>
</tr>
<tr>
<td>9400-08</td>
<td>Biotin (BIOT)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-09</td>
<td>R-phycoerythrin (PE)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-09S</td>
<td>R-phycoerythrin (PE)</td>
<td>25 tests</td>
</tr>
<tr>
<td>9400-11</td>
<td>Allophycocyanin (APC)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-11S</td>
<td>Allophycocyanin (APC)</td>
<td>25 tests</td>
</tr>
<tr>
<td>9400-13</td>
<td>Spectral Red™ (SPRD)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-14</td>
<td>Low Endotoxin, Azide-Free (LE/AF)</td>
<td>0.5 mg</td>
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<tr>
<td>9400-17</td>
<td>R-phycoerythrin-Cyanine 7 (PE/CY7)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-26</td>
<td>Pacific Blue™ (PACBLU)</td>
<td>100 tests</td>
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<tr>
<td>9400-27</td>
<td>Alexa Fluor® 700 (AF700)</td>
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<tr>
<td>9400-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
<td>100 tests</td>
</tr>
<tr>
<td>9400-31</td>
<td>Alexa Fluor® 647 (AF647)</td>
<td>100 tests</td>
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</tbody>
</table>

Overview

Clone F10-44-2
Isotype Mouse (BALB/c) IgG2aκ
Immunogen Purified T cells from human lymph nodes
Specificity Human/Ma’s Night Monkey CD44; Mr 80 - 95 kDa
Alternate Name(s) Pgp-1, H-CAM, ECMR-III, HUTCH-1
Workshop III 402, 408; IV B51, M157, N95, N709; V S330

Description

CD44, also known as phagocytic glycoprotein-1 (Pgp-1), exists as a large number of different isoforms resulting from alternative RNA splicing. The major isoform expressed on lymphocytes, myeloid cells, and erythrocytes is a glycosylated type I transmembrane protein. Other variable isoforms containing glycosaminoglycans have molecular weights ranging from 110 to 250 kDa and are widely expressed on hematopoietic and non-hematopoietic cells. CD44 contributes to the adhesion of leukocytes to endothelial cells, stromal cells, and the extracellular matrix. It also plays a functional role in cell migration, lymphocyte homing, and adhesion during hematopoiesis and lymphocyte activation.

Applications

FC – Quality tested 2-9,16
IHC-FS – Reported in literature 2,4
IHC-PS – Reported in literature 5,6
ICC – Reported in literature 7,8
IP – Reported in literature 10,12,17,18
WB – Reported in literature 7,19,20
Adhesion – Reported in literature 20,23
Activ – Reported in literature 20-22
Block – Reported in literature 23
Cyto – Reported in literature 2
CMCD – Reported in literature 24
Depletion – Reported in literature 12
Purification – Reported in literature 9,11

Working Dilutions

Flow Cytometry
Purified (UNLB) antibody
≤ 1 µg/10⁶ cells
FITC, BIOT, PE, APC, SPRD, PE/CY7, AF488, AF647, AF700,
and PACBLU conjugates
10 µL/10⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

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-phycocerythrin (PE) and allophycocyanin (APC) conjugates are 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-phycocerythrin-Cyanine 7 (PE/CY7) 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 low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of PBS. Aliquot and store at or below -20°C.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), 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 SDS.

References

15. Stamenkovic I, Aruffo A, Amiot M, Seed B. The hematopoietic and epithelial forms of CD44 are distinct polypeptides with different adhesion potentials for hyaluronate-bearing cells.