**Product Information**

<table>
<thead>
<tr>
<th>Material Number:</th>
<th>563067</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate Name:</td>
<td>MS4A1; B1; Bp35; LEU-16; S7</td>
</tr>
<tr>
<td>Size:</td>
<td>50 tests</td>
</tr>
<tr>
<td>Vol. per Test:</td>
<td>5 µl</td>
</tr>
<tr>
<td>Clone:</td>
<td>2H7</td>
</tr>
<tr>
<td>Immunogen:</td>
<td>Human 6.16c1.3 B cell line</td>
</tr>
<tr>
<td>Isotype:</td>
<td>Mouse (C57BL/6) IgG2b, κ</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>QC Testing: Human</td>
</tr>
<tr>
<td>Workshop:</td>
<td>II B22; III B739, NL382; IV B201</td>
</tr>
<tr>
<td>Storage Buffer:</td>
<td>Aqueous buffered solution containing BSA and ≤0.09% sodium azide.</td>
</tr>
</tbody>
</table>

**Description**

The 2H7 monoclonal antibody specifically binds to CD20 that is encoded by the *MS4A1* (Membrane-spanning 4-domains, subfamily A, member 1) gene. CD20 is a 33-37 kDa unglycosylated four-transmembrane phosphoprotein. CD20 is expressed on pre-B-cells, resting and activated B cells and follicular dendritic cells but not on plasma cells. Low level CD20 expression is observed on a small subset of normal circulating T lymphocytes. The CD20 molecule is involved in the regulation of B-cell activation.

The antibody was conjugated to BD Horizon™ BV510 which is part of the BD Horizon™ Brilliant Violet™ family of dyes. With an Ex Max of 405-nm and Em Max at 510-nm, BD Horizon™ BV510 can be excited by the violet laser and detected in the BD Horizon™ V500 (525/50-nm) filter set. BD Horizon™ BV510 conjugates are useful for the detection of dim markers off the violet laser.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with BD Horizon™ BV510 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV510 were removed.

**Application Notes**

Application

| Flow cytometry | Routinely Tested |

**BD Biosciences**

For country contact information, visit bdbiosciences.com/contact

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BD Biosciences

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0120.855.990
65.6861.0633
55.11.185.9995

United States
Canada
Europe
Japan
Asia Pacific
Latin America/Caribbean
Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 ml</td>
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</tr>
<tr>
<td>563025</td>
<td>BV510 Mouse IgG2b, κ Isotype Control</td>
<td>50 µg</td>
<td>27-35</td>
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<tr>
<td>555899</td>
<td>Lysing Buffer</td>
<td>100 ml</td>
<td>(none)</td>
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</tbody>
</table>

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. An isotype control should be used at the same concentration as the antibody of interest.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Brilliant Violet™ 510 is a trademark of Sirigen.
8. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.

References

Hullin LE, Hauser MA, Hullin PM, Giorji JV. CD20 (pan-B cell) antigen is expressed at a low level on a subpopulation of human T lymphocytes. Cytometry. 1993; 14(2):193-204. (Biology)