Welcome to More Choice

Human Small-Scale Panels

Choose from our extensive portfolio of high-quality fluorescent-conjugated reagents to build your multicolor flow cytometry panels.
Welcome to a More Colorful World℠

Visit bdbiosciences.com/choice to see our extensive portfolio of both new and existing reagents. Then choose reagents to build panels that suit your unique research needs.

These panels were designed based on the general principles of multicolor panel design and have not been tested experimentally at BD Biosciences. Users are encouraged to design and optimize their panels based on their specific instrument and experimental design.

These panels are provided as examples only.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
Human Panels

Visit [bdbiosciences.com/colors](http://bdbiosciences.com/colors) for the most up-to-date product listings.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

### B Cells

#### 6 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD5</td>
<td>UCHT2</td>
<td>Alexa Fluor® 700</td>
<td>50 tests</td>
<td>561159</td>
</tr>
<tr>
<td>CD19</td>
<td>HIB19</td>
<td>BD Horizon™ V450</td>
<td>30 tests</td>
<td>560354</td>
</tr>
<tr>
<td>CD20</td>
<td>2H7</td>
<td>APC</td>
<td>25 tests</td>
<td>560900</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>BD Horizon™ V500</td>
<td>25 tests</td>
<td>560779</td>
</tr>
<tr>
<td>Ig, light chain κ</td>
<td>G20-193</td>
<td>PE</td>
<td>100 tests</td>
<td>555792</td>
</tr>
<tr>
<td>Ig, light chain λ</td>
<td>JDC-12</td>
<td>FITC</td>
<td>100 tests</td>
<td>555796</td>
</tr>
</tbody>
</table>

#### 4 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD19</td>
<td>HIB19</td>
<td>Alexa Fluor® 700</td>
<td>25 µg</td>
<td>561031</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>PE-Cy™7</td>
<td>25 tests</td>
<td>560915</td>
</tr>
<tr>
<td>Ig, light chain κ</td>
<td>G20-193</td>
<td>PE</td>
<td>100 tests</td>
<td>555792</td>
</tr>
<tr>
<td>Ig, light chain λ</td>
<td>JDC-12</td>
<td>FITC</td>
<td>100 tests</td>
<td>555796</td>
</tr>
</tbody>
</table>
# Human Panels

## T Cells

### 6 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD2</td>
<td>RPA-2.10</td>
<td>PerCP-Cy™5.5</td>
<td>50 tests</td>
<td>560643</td>
</tr>
<tr>
<td>CD3</td>
<td>UCHT1</td>
<td>Alexa Fluor® 700</td>
<td>25 µg</td>
<td>561027</td>
</tr>
<tr>
<td>CD5</td>
<td>UCHT2</td>
<td>APC</td>
<td>25 tests</td>
<td>561003</td>
</tr>
<tr>
<td>CD7</td>
<td>M-T701</td>
<td>PE</td>
<td>100 tests</td>
<td>555361</td>
</tr>
<tr>
<td>CD8</td>
<td>HIT8A</td>
<td>FITC</td>
<td>25 tests</td>
<td>560960</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>BD Horizon V450</td>
<td>30 tests</td>
<td>560368</td>
</tr>
</tbody>
</table>

### 4 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD3</td>
<td>UCHT1</td>
<td>Alexa Fluor® 700</td>
<td>25 µg</td>
<td>561027</td>
</tr>
<tr>
<td>CD4</td>
<td>RPA-T4</td>
<td>FITC</td>
<td>25 tests</td>
<td>561005</td>
</tr>
<tr>
<td>CD8</td>
<td>HIT8A</td>
<td>PE</td>
<td>25 tests</td>
<td>560959</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>BD Horizon V450</td>
<td>30 tests</td>
<td>560368</td>
</tr>
</tbody>
</table>

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
### Human Panels

**Dendritic Cells**

#### 6 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD11c</td>
<td>B-ly6</td>
<td>APC</td>
<td>25 tests</td>
<td>560895</td>
</tr>
<tr>
<td>CD16</td>
<td>3G8</td>
<td>BD Horizon V450</td>
<td>30 tests</td>
<td>560475</td>
</tr>
<tr>
<td>CD56</td>
<td>NCAM 16.2</td>
<td>PE</td>
<td>50 tests</td>
<td>340363</td>
</tr>
<tr>
<td>CD123</td>
<td>7G3</td>
<td>PerCP-Cy5.5</td>
<td>25 tests</td>
<td>560904</td>
</tr>
<tr>
<td>HLA-DR</td>
<td>G46-6</td>
<td>Alexa Fluor® 700</td>
<td>50 tests</td>
<td>560743</td>
</tr>
<tr>
<td>Lin-3 Cocktail</td>
<td>——</td>
<td>FITC</td>
<td>50 tests</td>
<td>643510</td>
</tr>
</tbody>
</table>

#### 4 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD11c</td>
<td>B-ly6</td>
<td>APC</td>
<td>25 tests</td>
<td>560895</td>
</tr>
<tr>
<td>CD123</td>
<td>7G3</td>
<td>PE</td>
<td>25 µg</td>
<td>561058</td>
</tr>
<tr>
<td>HLA-DR</td>
<td>G46-6</td>
<td>Alexa Fluor® 700</td>
<td>50 tests</td>
<td>560743</td>
</tr>
<tr>
<td>Lin-1 Cocktail</td>
<td>——</td>
<td>FITC</td>
<td>50 tests</td>
<td>340546</td>
</tr>
</tbody>
</table>

Visit [bdbiosciences.com/colors](http://bdbiosciences.com/colors) for the most up-to-date product listings.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
### Human Panels

#### 6 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD13</td>
<td>WM15</td>
<td>APC</td>
<td>100 tests</td>
<td>557454</td>
</tr>
<tr>
<td>CD15</td>
<td>HI98</td>
<td>FITC</td>
<td>25 tests</td>
<td>560997</td>
</tr>
<tr>
<td>CD16</td>
<td>3G8</td>
<td>PerCP-Cy5.5</td>
<td>50 tests</td>
<td>560717</td>
</tr>
<tr>
<td>CD33</td>
<td>WM53</td>
<td>Alexa Fluor® 700</td>
<td>50 tests</td>
<td>561160</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>PE-Cy7</td>
<td>25 tests</td>
<td>560915</td>
</tr>
<tr>
<td>CD64</td>
<td>10.1</td>
<td>PE</td>
<td>100 tests</td>
<td>558592</td>
</tr>
</tbody>
</table>

#### 4 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD13</td>
<td>WM15</td>
<td>APC</td>
<td>100 tests</td>
<td>557454</td>
</tr>
<tr>
<td>CD15</td>
<td>HI98</td>
<td>FITC</td>
<td>25 tests</td>
<td>560997</td>
</tr>
<tr>
<td>CD16</td>
<td>3G8</td>
<td>PE</td>
<td>25 tests</td>
<td>560995</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>PE-Cy7</td>
<td>25 tests</td>
<td>560915</td>
</tr>
</tbody>
</table>

Visit [bdbiosciences.com/colors](http://bdbiosciences.com(colors) for the most up-to-date product listings.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
<table>
<thead>
<tr>
<th>Human Panels</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NK Cells</strong></td>
</tr>
<tr>
<td><strong>6 Color</strong></td>
</tr>
<tr>
<td>Specificity</td>
</tr>
<tr>
<td>CD3</td>
</tr>
<tr>
<td>CD8</td>
</tr>
<tr>
<td>CD16</td>
</tr>
<tr>
<td>CD45</td>
</tr>
<tr>
<td>CD56</td>
</tr>
<tr>
<td>CD57</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hematopoietic Stem Cells (HSCs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4 Color</strong></td>
</tr>
<tr>
<td>Specificity</td>
</tr>
<tr>
<td>CD34</td>
</tr>
<tr>
<td>CD38</td>
</tr>
<tr>
<td>CD90</td>
</tr>
<tr>
<td>Lineage Cocktail</td>
</tr>
</tbody>
</table>

Visit bdbiosciences.com/colors for the most up-to-date product listings.
### Human Panels

**Mesenchymal Stem Cells (MSCs) - Positive and Negative Markers**

#### 4 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD11b</td>
<td>ICRF44</td>
<td>APC</td>
<td>25 tests</td>
<td>561015</td>
</tr>
<tr>
<td>CD19</td>
<td>HIB19</td>
<td>APC</td>
<td>100 tests</td>
<td>555415</td>
</tr>
<tr>
<td>CD34</td>
<td>581</td>
<td>APC</td>
<td>25 tests</td>
<td>560940</td>
</tr>
<tr>
<td>CD45</td>
<td>HI30</td>
<td>APC</td>
<td>25 tests</td>
<td>560973</td>
</tr>
<tr>
<td>CD73</td>
<td>AD2</td>
<td>PE</td>
<td>25 tests</td>
<td>561014</td>
</tr>
<tr>
<td>CD90</td>
<td>5E10</td>
<td>FITC</td>
<td>100 µg</td>
<td>555595</td>
</tr>
<tr>
<td>CD105</td>
<td>266</td>
<td>PerCP-Cy5.5</td>
<td>100 tests</td>
<td>560819</td>
</tr>
<tr>
<td>HLA-DR</td>
<td>L243 (G46-6)</td>
<td>APC</td>
<td>25 tests</td>
<td>560896</td>
</tr>
</tbody>
</table>

#### 5 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD44</td>
<td>G44-26</td>
<td>APC-H7</td>
<td>50 tests</td>
<td>560532</td>
</tr>
<tr>
<td>CD73</td>
<td>AD2</td>
<td>PE</td>
<td>25 tests</td>
<td>561014</td>
</tr>
<tr>
<td>CD90</td>
<td>5E10</td>
<td>FITC</td>
<td>100 µg</td>
<td>555595</td>
</tr>
<tr>
<td>CD105</td>
<td>266</td>
<td>PerCP-Cy5.5</td>
<td>100 tests</td>
<td>560819</td>
</tr>
<tr>
<td>CD271</td>
<td>C40-1457</td>
<td>Alexa Fluor® 647</td>
<td>25 tests</td>
<td>560877</td>
</tr>
</tbody>
</table>

Visit [bdbiosciences.com/colors](http://bdbiosciences.com/colors) for the most up-to-date product listings.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.
# Mesenchymal Stem Cells (MSCs) - Negative Markers

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD14</td>
<td>M5E2</td>
<td>PerCP-Cy5.5</td>
<td>25 µg</td>
<td>561116</td>
</tr>
<tr>
<td>CD19</td>
<td>HIB19</td>
<td>FITC</td>
<td>25 tests</td>
<td>560994</td>
</tr>
<tr>
<td>CD34</td>
<td>581</td>
<td>APC</td>
<td>25 tests</td>
<td>560940</td>
</tr>
<tr>
<td>CD45</td>
<td>2D1</td>
<td>APC-H7</td>
<td>25 tests</td>
<td>560274</td>
</tr>
<tr>
<td>HLA-DR</td>
<td>L243 (G46-6)</td>
<td>PE</td>
<td>25 tests</td>
<td>560943</td>
</tr>
</tbody>
</table>

Visit bdbiosciences.com/colors for the most up-to-date product listings.
## Human Panels

### Pluripotent Stem Cells

#### 4 Color

<table>
<thead>
<tr>
<th>Specificity</th>
<th>Clone</th>
<th>Format</th>
<th>Size</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tra-1-60</td>
<td>TRA-1-60</td>
<td>BD Horizon V450</td>
<td>50 tests</td>
<td>561153</td>
</tr>
<tr>
<td>Tra-1-81</td>
<td>TRA-1-81</td>
<td>PE</td>
<td>25 tests</td>
<td>560885</td>
</tr>
<tr>
<td>SSEA-3</td>
<td>MC631</td>
<td>FITC</td>
<td>25 tests</td>
<td>560881</td>
</tr>
<tr>
<td>SSEA-4</td>
<td>MC813-70</td>
<td>Alexa Fluor® 647</td>
<td>100 tests</td>
<td>560796</td>
</tr>
</tbody>
</table>

Visit [bdbiosciences.com/colors](http://bdbiosciences.com/colors) for the most up-to-date product listings.