How to use this chart

1. Check your instrument:
   Type, number of lasers, filters and detectors dictate the fluorochromes that can be used.
   Try to choose a fluorochrome for each laser excitation range.

2. Select bright dyes:
   It is possible to rank available dyes according to their brightness on a particular instrument.
   Brightest fluorochromes for dim antibodies and vice versa.

3. Minimize spillover:
   The amount of spectral overlap will determine whether compensation is required.
   > Sacrifice brightness to avoid spillover.
   > Avoid spillover from bright cell populations into detectors requiring high sensitivity for those populations.

Examples

<table>
<thead>
<tr>
<th>Fluorochrome</th>
<th>Target Expression</th>
<th>Lasers</th>
<th>Channels</th>
<th>Brightness</th>
<th>Compensation</th>
<th>Combination</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>High</td>
<td>Blue, Red</td>
<td>Green, Red</td>
<td>Medium, High</td>
<td>Mid</td>
<td>Good</td>
</tr>
<tr>
<td>APC</td>
<td>Low</td>
<td>Blue, Red</td>
<td>Green, Red</td>
<td>Medium, High</td>
<td>Moderate</td>
<td>Medium</td>
</tr>
<tr>
<td>PE</td>
<td>High</td>
<td>Blue, Yellow</td>
<td>Green, Yellow</td>
<td>Medium, High</td>
<td>Severe (not recommended)</td>
<td>Poor</td>
</tr>
</tbody>
</table>

Discover more at abcam.com/fluorochrome-chart

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