PRODUCT INFORMATION SHEET
Monoclonal antibodies detecting human antigens

Anti-HLA-B7

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PURE</td>
<td>RUO</td>
</tr>
<tr>
<td>R-PE</td>
<td>RUO</td>
</tr>
</tbody>
</table>

For Research Use Only

Description
Clone BB7.1
Isotype Murine IgG1
Specificity The mouse monoclonal antibody BB7.1 recognizes the HLA-B7 antigen. Although highly specific, it can cross-react with HLA-B42 antigen.
Species Human, Non-Human Primates
Immunogen Papain solubilised HLA-A2, B7

Summary HLA-B7 allele of human HLA class I major histocompatibility (MHC) antigen indicates higher risk of breast cancer and cervical cancer. Expression of HLA-B7 together with HLA-B27 is associated with increased susceptibility to spondyloarthropathies. Flow cytometry detection of these two alleles is being used to screen for patients, who suffer from inflammatory disorders affecting the sacroiliac and intervertebral joints, such as ankylosing spondylitis (AS). The HLA-B7 antigen (11 alleles) is expressed in 22% of healthy Caucasian individuals.

Applications FC. Determining optimal working dilutions by titration test.

Limitations
1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar with performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent performance can be affected by the use of anticoagulants.

Handling and Storage
Antibodies are supplied in phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4. Store the vials at 2-8°C. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent.

Warning All products contain sodium azide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

Version 1
References

Explanation of used symbols

<table>
<thead>
<tr>
<th>Label</th>
<th>-tandem</th>
<th>Ex -max (nm)</th>
<th>Em -max (nm)</th>
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<tbody>
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