Technical Data Sheet

Purified NA/LE Mouse Anti-Human HLA-DR, DP, DQ

Product Information

Material Number: 555556
Alternate Name: Tü39; MHC class II HLA-DR, DP, DQ
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: Tu39 (also known as TÜ39)
Isotype: Mouse IgG2a, κ
Reactivity: Tested in Development: Rhesus, Cynomolgus, Baboon
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

The TU39 monoclonal antibody specifically recognizes human major histocompatibility (MHC) Class II HLA-DR, DP and most DQ antigens. These antigens are encoded by genes within the Human Leukocyte Antigen (HLA) Complex located on chromosome 6. MHC Class II antigens are transmembrane heterodimeric glycoproteins composed of α chain (36 kDa) and β chain (27 kDa) subunits. They are expressed primarily on antigen presenting cells which include dendritic cells, monocytes, macrophages, thymic epithelial cells, and B cells. They are also expressed on activated T cells. This molecule plays a major role in mediating cellular interactions during antigen presentation to CD4+ T lineage cells. The TU39 antibody is reportedly useful for immunophenotyping as well as functional studies including the inhibition of mixed lymphocyte reactions and antibody-mediated complement fixation on target cells.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application
Flow cytometry  Routinely Tested
<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554645</td>
<td>Purified NA/LE Mouse IgG2a, κ Isotype Control</td>
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<td>G155-178</td>
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<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<tr>
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<td>555899</td>
<td>Lysing Buffer</td>
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</table>

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
4. Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.

**References**
