Technical Data Sheet

Biotin Mouse Anti-Mouse IgM[b]

Product Information

Material Number: 553519
Alternate Name: IgM[b]
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: AF6-78
Immunogen: C57BL/10 mouse splenocytes
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description
The AF6-78 antibody reacts specifically with mouse IgM of Igh-C[b] and related haplotypes (e.g., C57BL/6, C57BL/10, SJL, AKR, NZB). It does not react with IgM of Igh-C[a] or related haplotypes (e.g., BALB/c, C58, CBA, C3H/Bi, C3H/He, DBA/1, DBA/2, PL, RIJ). Cross-reaction with IgM of Igh-C[e] haplotype (e.g., A/J) has been observed. AF6-78 antibody does not react with free µ heavy chain in vitro or in the cytoplasm of pre-B lymphocytes, which lack Ig light chain. It has not been shown to stimulate B-cell proliferation.

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

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<tr>
<th>Application</th>
<th>Routine Tested</th>
<th>Tested During Development</th>
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<tbody>
<tr>
<td>ELISA</td>
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<tr>
<td>Flow cytometry</td>
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Recommended Assay Procedure:
Biotin-conjugated AF6-78 mAb may be used as a primary or secondary reagent in immunofluorescent staining.

Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>550615</td>
<td>Biotin Mouse IgG1 κ Isotype Control</td>
<td>0.25 mg</td>
<td>MOPC-31C</td>
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<tr>
<td>554057</td>
<td>Avidin FITC</td>
<td>0.5 mg</td>
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Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. 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.

References