Product Information

Material Number: 558915
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: 34-5-8S
Immunogen: (C57BL/6 x DBA/2)F1 hybrid mouse splenocytes
Isotype: Mouse (C3H) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 34-5-8S antibody recognizes an epitope on the N-terminal domains, α1 and α2, of the H-2Dd. The mAb identifies a conformationally sensitive epitope of H-2Dd associated with β2 microglobulin; it fails to react with free H-2D[d] a chains synthesized in vitro. Weak cross-reactivity with cells from mice of the H-2b, H-2q, and H-2s haplotypes has been observed by flow cytometric analysis. Reactivity with other haplotypes (e.g., f, k, p, r) has not been observed. mAb 34-5-8S has been reported to block the recognition of H-2Dd by Ly-49A+, C+, F+, G2+, or I+ NK cells or transfectants.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4°C.

Application Notes

<table>
<thead>
<tr>
<th>Application</th>
<th>Routine Tested</th>
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<tbody>
<tr>
<td>Flow cytometry</td>
<td>Routinely Tested</td>
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<tr>
<td>Cytotoxicity</td>
<td>Reported</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
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<tr>
<td>Immunoaffinity Chromatography</td>
<td>Reported</td>
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<tr>
<td>Blocking</td>
<td>Reported</td>
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<tr>
<td>Immunohistochemistry-formalin (antigen retrieval required)</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

Recommended Assay Procedure:
For immunohistochemical staining (IHC) of frozen sections expressing MHC class I antigen of the d haplotype, we recommend the use of biotinylated anti-mouse H-2Kd mAb SF1-1.1, Cat. No. 553564.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553454</td>
<td>Purified Mouse IgG2a κ Isotype Control</td>
<td>0.5 mg</td>
<td>G155-178</td>
</tr>
<tr>
<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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</tbody>
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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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE™ (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

References


