Technical Data Sheet

Purified Mouse Anti-Mouse H-2D[b]

Product Information

Material Number: 553600
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: 28-14-8
Immunogen: C3H.SW mouse splenocytes
Isotype: Mouse (C3H) IgG2a, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 28-14-8 antibody reacts with the α3 domain of the H-2D[b] MHC class I alloantigen. The antibody binds to H-2D[b] in the presence or absence of the β2 microglobulin chain. It cross-reacts with the α3 domain of H-2L[d], but not with K[d] or D[d], and with H-2D[q] and/or L[q]. Reactivity with haplotypes k, f, p, r, and s has not been observed. mAb 28-14-8 has been shown to block H-2L[d]-specific and H-2L[d]-restricted antigen-specific lysis of target cells by cytotoxic T lymphocytes (CTL), but it does not block recognition of H-2L[d] positive target cells by Ly-6G2-positive NK cells.

Preparation and Storage

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

Application Notes

Application

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<tr>
<th>Application</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td>Flow cytometry</td>
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<tr>
<td>Cytotoxicity</td>
<td>Reported</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Radioimmunassay</td>
<td>Reported</td>
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<tr>
<td>Blocking</td>
<td>Reported</td>
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Recommended Assay Procedure:

For immunohistochemical staining of cells expressing MHC class I antigen of the b haplotype, we recommend the use of the biotinylated anti-mouse H-2Kb mAb AF6-88.5 in our special formulation for immunohistochemistry, Cat. No. 550550. For in vitro and in vivo use the No Azide/Low Endotoxin antibody format (NA/LE™), Cat. No. 559579, is recommended.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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</thead>
<tbody>
<tr>
<td>553454</td>
<td>Purified Mouse IgG2a κ Isotype Control</td>
<td>0.5 mg</td>
<td>G155-178</td>
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<tr>
<td>550550</td>
<td>Biotin Mouse Anti-Mouse H-2K[b]</td>
<td>1.0 ml</td>
<td>AF6-88.5</td>
</tr>
<tr>
<td>559579</td>
<td>Purified NA/LE Mouse Anti-Mouse H-2D[b]</td>
<td>0.5 mg</td>
<td>28-14-8</td>
</tr>
<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</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.

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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