Technical Data Sheet

Purified Hamster Anti-Mouse H2-M3

Product Information

Material Number: 551769
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: 130
Immunogen: Purified soluble complex of recombinant truncated M3 and β2-microglobulin
Isotype: Armenian Hamster IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The hamster anti-mouse H2-M3 antibody (clone 130) reacts with the H2-M3 major histocompatibility complex (MHC) non-classical class Ib antigen. H2-M3 (M3) associates with β2-microglobulin and is capable of being expressed by most leukocytes. However, due to a lack of endogenous antigens, M3 has been reported to be undetectable on most cells. Its expression is induced by high-affinity N-formylated peptides from mitochondria, Listeria monocytogenes, and Mycobacterium tuberculosis. The induced expression of M3 is most efficient on antigen presenting cells. M3 presents antigen to cytotoxic T lymphocytes and may play a key role in protective immunity against the intracellular bacteria L. monocytogenes and M. tuberculosis. Furthermore, M3 is capable of presenting mitochondrial antigens for intrathymic positive selection of T-cell receptors which recognize those peptides.

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

<table>
<thead>
<tr>
<th>Flow cytometry</th>
<th>Routinely Tested</th>
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<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
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551769 Rev. 2
Suggested Companion Products

<table>
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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>553969</td>
<td>Purified Hamster IgG1, κ Isotype Control</td>
<td>0.5 mg</td>
<td>A19-3</td>
</tr>
<tr>
<td>553141</td>
<td>Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block™)</td>
<td>0.1 mg</td>
<td>2.4G2</td>
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<tr>
<td>554056</td>
<td>PE Mouse Anti-Armenian and Syrian Hamster IgG Cocktail</td>
<td>0.2 mg</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/pharmingen/hamster_chart_11x17.pdf.
4. 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