Technical Data Sheet

Purified Mouse Anti-Rat CD11b/c

Product Information

Material Number: 550299
Size: 1.0 ml
Concentration: 62.5 µg/ml
Clone: OX-42
Immunogen: Resident peritoneal cells from (PVG.RT1[c] x PVG.RT1[u]) and (PVG.RT1[c] x PVG.RT1[a]) F1-hybrid rat
Isotype: Mouse (BALB/c) IgG2a, κ
Reactivity: QC Testing: Rat
Storage Buffer: Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide.

Description

The OX-42 monoclonal antibody specifically binds to the CR3 complement (C3bi) receptor found on most monocytes, granulocytes, macrophages, dendritic cells, and microglia. It appears to recognize a common epitope shared by CD11b and CD11c (integrin αM and αX chains). OX-42 antibody inhibits C3bi binding activity.

Preparation and Storage

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

Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
<th>Tested During Development</th>
<th>Not Recommended</th>
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<tbody>
<tr>
<td>Flow cytometry</td>
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<tr>
<td>Immunohistochemistry-frozen</td>
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<td>Immunohistochemistry-zinc-fixed</td>
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<td>Immunohistochemistry-formalin</td>
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Recommended Assay Procedure:

Immunohistochemistry: This antibody may be used for immunohistochemical staining of acetone-fixed, frozen and zinc-fixed, paraffin sections.

This antibody is not recommended for formalin-fixed, paraffin-embedded sections. This antibody has been reported to stain granulocytes and macrophages in tissues such as rat spleen and thymus. The isotype control suggested for use with this antibody is purified mouse IgG2a (Cat. No. 550339). For optimal indirect immunohistochemical staining, this antibody should be titrated (1:10 to 1:50 dilution) and visualized via a three-step staining procedure in combination with biotinylated anti-mouse IgG2a (Cat. No. 550332) as the secondary antibody and Streptavidin-HRP (Cat. No. 550946) together with a DAB detection system (Cat. No. 550880).

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>550339</td>
<td>Purified Mouse IgG2a κ Isotype Control</td>
<td>1.0 ml</td>
<td>C1.18.4</td>
</tr>
<tr>
<td>550332</td>
<td>Biotin Rat Anti-Mouse IgG2a</td>
<td>1.0 ml</td>
<td>R19-15</td>
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<tr>
<td>550946</td>
<td>Streptavidin HRP</td>
<td>50 ml</td>
<td>(none)</td>
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<tr>
<td>550880</td>
<td>DAB Substrate Kit</td>
<td>500 tests</td>
<td>(none)</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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. This antibody has been developed for the immunohistochemistry application. However, a routine immunohistochemistry test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.
5. An isotype control should be used at the same concentration as the antibody of interest.

References

Issekutz AC, Issekutz TB. The contribution of LFA-1 (CD11a/CD18) and MAC-1 (CD11b/CD18) to the in vivo migration of polymorphonuclear leucocytes to inflammatory reactions in the rat. Immunology. 1992; 76(4):655-661. (Biology: Blocking)


Robinson AP, White TM, Mason DW. Macrophage heterogeneity in the rat as delineated by two monoclonal antibodies MRC OX-41 and MRC OX-42, the latter recognizing complement receptor type 3. Immunology. 1986; 57(2):239-247. (Immunogen: Blocking, Immunoprecipitation)

Robinson AP, White TM, Mason DW. MRC OX-43: a monoclonal antibody which reacts with all vascular endothelium in the rat except that of brain capillaries. Immunology. 1986; 57(2):231-237. (Immunogen)
