Technical Data Sheet

Purified NA/LE Mouse Anti-Rat CD11b/c

Product Information

Material Number: 554858
Alternate Name: Itgam/Integrin, alpha M, C3bi receptor, CR3; Itgad/Integrin, alpha D
Size: 0.5 mg
Concentration: 1.0 mg/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
 QC Testing: Rat
Reactivity:
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is \( \leq 0.01 \) EU/µg (\( \leq 0.001 \) ng/µg) of protein as determined by the LAL assay.

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.
This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

<table>
<thead>
<tr>
<th>Application</th>
<th>Protocol Status</th>
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</thead>
<tbody>
<tr>
<td>Flow cytometry</td>
<td>Routinely Tested</td>
</tr>
<tr>
<td>Blocking</td>
<td>Reported</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
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<tr>
<td>Immunocytochemistry (cytospins)</td>
<td>Reported</td>
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<tr>
<td>Immunohistochemistry-frozen</td>
<td>Reported</td>
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<tr>
<td>Immunofluorescence</td>
<td>Reported</td>
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Recommended Assay Procedure:

For immunohistochemistry, we recommend the use of Purified Mouse Anti-Rat CD11b/c (Cat. No. 550299) in our special formulation for immunohistochemistry.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553453</td>
<td>Purified NA/LE Mouse IgG2a, κ Isotype Control</td>
<td>0.5 mg</td>
<td>G155-178</td>
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<tr>
<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>(none)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
</tbody>
</table>

Product Notices

1. An isotype control should be used at the same concentration as the antibody of interest.
3. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
References


Ford AL, Goodstadt AL, Hickey WF, Sedgwick JD. Normal adult ramified microglia separated from other central nervous system macrophages by flow cytometric sorting. Phenotypic differences defined and direct ex vivo antigen presentation to myelin basic protein-reactive CD4+ T cells compared. J Immunol. 1995; 154(9):4309-4321. (Biology)

Issekutz AC, Issekutz TB. The contribution of LFA-1 (CD11a/CD18) and MAC-1 (CD11b/CD18) to the in vivo migration of polymorphonuclear leukocytes to inflammatory reactions in the rat. Immunology. 1992; 76(4):655-661. (Clone-specific: 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, Immunocytochemistry (cytospins), Immunofluorescence, Immunohistochemistry, 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)

Shinoda M, Hoffer BJ, Olson L. Interactions of neurotrophic factors GDNF and NT-3, but not BDNF, with the immune system following fetal spinal cord transplantation. Brain Res. 1996; 722(1-2):153-167. (Biology)
