Purified Mouse Anti-Rat CD25

Product Information

Material Number: 559980
Alternate Name: Interleukin-2 receptor alpha chain; IL-2Rα; IL2ra; IL-2R p55
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: OX-39
Immunogen: Rat T blasts from mixed-lymphocyte reactions
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Rat
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The OX-39 monoclonal antibody specifically binds to the α chain of the IL-2 Receptor (IL-2Rα, IL2RA) on activated T cells, T regulatory cells, and thymic and splenic dendritic cells. CD25 has also been detected on rat intestinal epithelial cells. It has been reported that OX-39 mAb weakly blocks binding of IL-2 to T-cell blasts and that it blocks IL-2 stimulated epithelial cell migration in an in vitro model of wound healing.

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>Routine Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow cytometry</td>
<td>Yes</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Yes</td>
</tr>
<tr>
<td>Immunohistochemistry-frozen</td>
<td>Yes</td>
</tr>
<tr>
<td>Blocking</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>557273</td>
<td>Purified Mouse IgG1, κ Isotype Control</td>
<td>0.5 mg</td>
<td>MOPC-31C</td>
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<tr>
<td>555988</td>
<td>FITC Goat Anti-Mouse IgG1/IgM</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
</tbody>
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Product Notices

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

Paterson DJ, Jefferies WA, Green JR. Antigens of activated rat T lymphocytes including a molecule of 50,000 Mr detected only on CD4 positive T blasts. *Mo Immuno.* 1987; 24(12):1128-1130. (Immunogen: Blocking, Immunofluorescence, Immunohistochemistry)