Technical Data Sheet

Purified Rat Anti-Mouse CD244.1

Product Information

Material Number:
552421
Alternate Name:
2B4 BALB Alloantigen; Cd244; Ly90; NAIL; Nmrk; SLAMF4
Size:
0.1 mg
Concentration:
0.5 mg/ml
Clone:
C9.1
Immunogen:
Mouse MHC-unrestricted killer hybridoma 7D4
Isotype:
Rat (LEW) IgG2b, κ
Reactivity:
QC Testing: Mouse
Storage Buffer:
Aqueous buffered solution containing ≤0.09% sodium azide.

Description

CD244 (also known as 2B4 Antigen) is a member of the CD2 subset of the immunoglobulin superfamily (CD2 IgSF). It is expressed on all natural killer (NK) cells, IL-2–activated NK cells (LAK), and a subset of T lymphocytes which mediate non-MHC–restricted cytotoxicity. The C9.1 antibody specifically recognizes CD244.1, the 2B4 alloantigen which is expressed by certain cells in most strains tested (A/J, AKR/N, BALB/c, CBA/N, C3H/He, DBA/1, DBA/2, NZB/N, SIL/J, 129/Svj), but not by cells from C57BL/6 or C58/J mice. The expression of the CD244.1 alloantigen on B lymphocytes that was originally described, has not been confirmed in later studies. The extracellular domain of CD244 is a ligand for another CD2 IgSF member, CD48.

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

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<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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<tr>
<td>Induction</td>
<td>Reported</td>
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552421 Rev. 4
Suggested Companion Products

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<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<td>Purified Rat IgG2b, κ Isotype Control</td>
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<td>A95-1</td>
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<td>553900</td>
<td>FITC Mouse Anti-Rat IgG2b</td>
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<td>RG7/11.1</td>
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<td>553858</td>
<td>PE Rat Anti-Mouse CD49b</td>
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<td>Stain Buffer (FBS)</td>
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<td>554657</td>
<td>Stain Buffer (BSA)</td>
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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


