Technical Data Sheet

PE Mouse Anti-Mouse CD244.2

Product Information

Material Number: 553306
Alternate Name: 2B4 B6 Alloantigen
Size: 0.2 mg
Concentration: 0.2 mg/ml
Clone: 2B4
Immunogen: rIL-2-propagated NK1.1+ cells from C57BL/6 mice
Isotype: Mouse (129) IgG2b, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

CD244 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 (LAK) cells, committed progenitors of NK cells, and a subset of T lymphocytes which mediate non-MHC-restricted cytotoxicity, including dendritic epidermal T cells. The 2B4 antibody reacts with CD244.2, the 2B4 alloantigen which is expressed on C57BL/6 and C58/J mice, but not in most strains tested (A/J, AKR, BALB/c, CBA/J, CBA/N, C3H/He, C57BR, DBA/1, DBA/2, NZB, SJL/J, 129). At least two isoforms of CD244.2 protein, products of alternative splicing of hnRNA, are expressed on IL-2-activated C57BL/6 NK cells. They differ only in their cytoplasmic domains; with 2B4L (150-aa cytoplasmic tail) having inhibitory activity and 2B4S (93-aa tail) being stimulatory. The extracellular domain of CD244 is a ligand for another CD2 IgSF member, CD48. 2B4 antibody activates lytic and secretory functions of IL-2-cultured NK cells and CD244.2+ T cells.

Two-color analysis of CD244.2 expression on LAK cells. C57BL/6 LAK cells were simultaneously stained with FITC-conjugated PK136 (anti-mouse NK-1.1, Cat. No. 553164, both panels) and PE-conjugated 2B4 (right panel) monoclonal antibodies. Flow cytometry was performed on a BD FACSscan™ System (BD Biosciences, San Jose, CA).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.
Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application
Flow cytometry
Routinely Tested

BD Biosciences

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553306 Rev. 12
### Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>553164</td>
<td>FITC Mouse Anti-Mouse NK-1.1</td>
<td>0.5 mg</td>
<td>PK136</td>
</tr>
<tr>
<td>559529</td>
<td>PE Mouse IgG2b, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MPC-11</td>
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### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.

### References