FITC Mouse Anti-Human CD279

Product Information

Material Number: 557860
Alternate Name: PD-1
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: MIH4
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description
Reacts with the program death 1 (PD-1) receptor CD279, a member of the Ig superfamily. CD279 is an immunoregulatory receptor expressed on activated T cells, B cells and myeloid cells. Mice deficient in CD279 show a breakdown of peripheral tolerance and manifest multiple autoimmune symptoms. It contains an immunoreceptor tyrosine-based inhibitory motif (ITIM) in the cytoplasmic region. PD-L1 and PD-L2 are ligands of CD279 and are members of the B7 gene family. Interaction of CD279:PD-Ligands results in inhibition of T cell proliferation and cytokine secretion. Reports suggest that the B7/CTLA-4 pathway functions primarily to attenuate, limit, and/or terminate naive T-cell activation in secondary lymphoid organs. The PD-ligand:CD279 pathway, on the other hand, may primarily attenuate, limit, and/or terminate T-, B-, and myeloid cell activation/effector function at sites of inflammation in the periphery.

Profile of anti-PD-1 (MIH4) reactivity on MIH4 transfectant cells analyzed by flow cytometry

Preparation and Storage
The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application
Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>555748</td>
<td>FITC Mouse IgG1, κ Isotype Control</td>
<td>100 tests</td>
<td>MOPC-21</td>
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</tbody>
</table>

Product Notices
2. 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.
3. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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References