Technical Data Sheet

PE Mouse Anti-Human CD279

Product Information

Material Number: 557946
Alternate Name: PD-1
Size: 100 tests
Vol. per Test: 20 µl
Clone: MIH4
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Workshop: NA
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description
Reacts with the programmed 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 naïve 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/effect function at sites of inflammation in the periphery.

Profile of anti-PD-1 (MIH4) reactivity on MIT34 transfectant cells analyzed by flow cytometry

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

Application Notes
Application

Suggested Companion Products

Catalog Number | Name | Size | Clone |
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555749 | PE Mouse IgG1, κ Isotype Control | 100 tests | MOPC-21 |

Product Notices
1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.

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4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

5. 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.

6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References


