



Mouse Anti-Human Programmed Cell Death-1 Monoclonal Antibody Datasheet

Product Name: mAb anti-Human Programmed Cell Death-1 **Clone No.:** 2H7

Catalogue No.: MO-L40043M **Quantity:** 0.5 mg/vial

Description: Mouse monoclonal antibody (mAb) to human programmed cell death-1 (PD-1), or mouse mAb to human CD279.

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human programmed cell death-1 (PD-1).

Immunogen: 40kDa recombinant human programmed cell death-1 (PD-1) from ACRO Biosystems (Cat. No.: PD1-H5221).

Fusion Myeloma: Sp2/0-Ag14

Specificity: The mAb is reactive with recombinant human programmed cell death-1 (PD-1). Reactivity with natural PD-1 has not been evaluated.

Species Reactivity: Human, others not tested.

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20 °C

Research Area: Immunosuppression

Background: Programmed Cell Death-1 (PD-1), also called CD279, is a 288 amino acid cell surface protein that belongs to the immunoglobulin superfamily. The protein is expressed on T cells, B cells and macrophages. When PD-1 is joined with its ligand (CD274 or B7-H1), the immune cell's activation and effector function are attenuated. Research suggested that PD1 pathway is mainly involved with attenuation at periphery sites while the B7/CTLA-4 pathway is primarily involved with the attenuation of the activation of immune cells in secondary lymphoid organs. PD-1 pathway is implicated with cancer's immune-evasion, autoimmunity, and *Listeria monocytogenes* infection.

Application: **Indirect ELISA:** The antibody is reactive to recombinant human programmed cell death-1 (PD-1).

Western Blot: The antibody is reactive to recombinant human PD-1 on Western Bot.

IHC: This antibody reacts with T-cells in thymus gland.

The thymus gland tissue sections below were treated by heat induced epitope retrieval before primary

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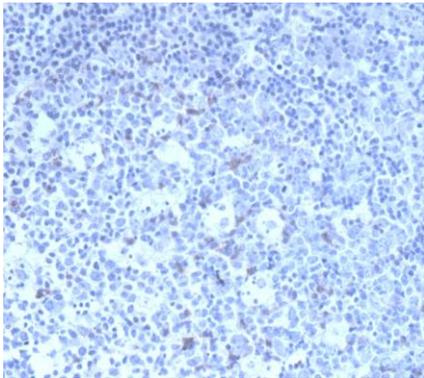
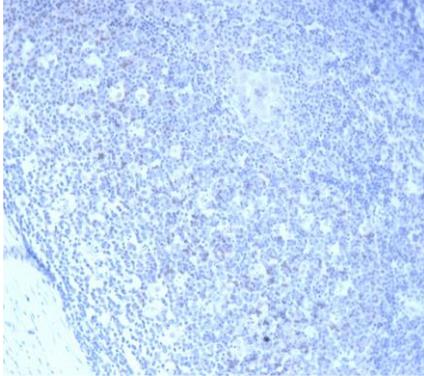
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antibody (20µg/mL) was added. The secondary antibody was an HRP-labelled goat anti-mouse IgG antibody.



References:

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