

**Mouse Anti-Human Programmed Cell Death-1 Monoclonal Antibody Datasheet****Product Name:** mAb anti-Human Programmed Cell Death-1 **Clone No.:** 7G12**Catalogue No.:** MO-L40043L **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, **detection antibody** in matched antibody pair.**Target Protein:** Human PD-1.**Immunogen:** Human cell expressed recombinant programmed cell death-1 (Pro21-Gln162 with a histidine tag at C-terminus). Accession No.: NP-005009.2**Fusion Myeloma:** Sp2/0-Ag14**Specificity:** The mAb is reactive to human cell expressed programmed cell death-1 (PD-1).**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:** 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 self-tolerance, cancer's immune-evasion, autoimmunity, and *Listeria monocytogenes* infection.**Application:** **Sandwich ELISA:** Anti PD-1 clone 7G12, when conjugated with a tracer, and used in combination with clone 7C9 (MO-L4003B) coated ELISA plate, can detect human cell expressed PD-1 in Sandwich ELISA application.

In addition to the immunogen, the antibody also reacts with another human cell expressed recombinant PD-1 (Leu25-Gln167 with an Fc tag at C-terminus). Accession No.: Q15116.

Western Blot: The antibody can detect recombinant human PD-1 at a

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2ng/well on Western Blot.

References:

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