

**Mouse Anti-Human Programmed Cell Death-1 Monoclonal Antibody Datasheet****Product Name:** mAb anti-Human Programmed Cell Death-1 **Clone No.:** B1C4**Catalogue No.:** MO-L40043G **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).**IHC:** This antibody reacts with thymus gland section.

The thymus gland tissue section below was treated by heat induced epitope retrieval before primary antibody (20µg/mL) was added. The secondary antibody was an HRP-labelled goat anti-mouse IgG antibody.

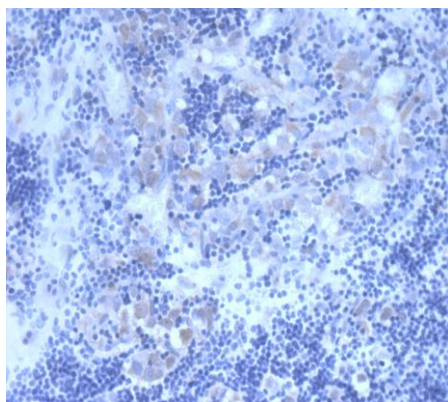
This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

Manufactured by **ANOGEN - A Division of YES Biotech Laboratories Ltd.**



## **ANOGEN - A Division of YES Biotech Laboratories Ltd.**

2355 Derry Road East, Unit 23, Mississauga, ON, Canada L5S 1V6 • Tel: (905) 677-9221 • Fax: (905) 677-0023



### **References:**

If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

**This product is for LABORATORY RESEARCH USE and further manufacture ONLY, and cannot be administered to human and animals for use in diagnostic and therapeutic procedures.**

**Manufactured by ANOGEN - A Division of YES Biotech Laboratories Ltd.**