# Anti-Human CD279 (PD-1) (Nivolumab) - APC



## **IVMB0435**

#### **Product Information**

Product SKU: IVMB0435 Clone: 5C4.B8 Target: PD-1

Size: 50 μg Isotype: Human IgG1κ

### **Additional Information**

**Reactivity:** Human/Cynomolgus Monkey **Host Species**: Human

Antibody Type: Biosimilar Recombinant Human Monoclonal Antibody Expression Host: HEK-293 Cells

# **Immunogen Information**

**Background**: Programmed cell death protein 1 (PD-1) is a protein on the surface of cells that plays a role

in the maintenance of self-tolerance. PD-1 promotes self-tolerance via the down-regulation  $\,$ 

of the immune system which results in the suppression of T cell inflammatory activity. PD-

L1 and PD-L2 are the two ligands known to bind PD-1. PD-L1 has increased expression in

several cancers.<sup>1</sup> PD-L2 has a more limited expression and is primarily expressed by dendritic

cells and only some tumor lines. Inhibition of the interaction of PD-1 with its ligands can

function as an immune checkpoint blockade through the improvement of In vitro T-cell

responses and via the mediation of anti-tumor activity.<sup>2</sup> Nivolumab disrupts the negative

signal that is responsible for T-cell activation and proliferation by binding to PD-1 on

activated immune cells to selectively block the interaction of the PD-1 receptor with its

ligands.<sup>3</sup> Emerging research suggests that combined blockade of PD-1 and CTLA-4, with

nivolumab and ipilimumab respectively, could produce greater antitumor activity than

blockade of either pathway alone.<sup>4</sup> This cost-effective, research-grade Anti-Human CD279

(PD-1) (Nivolumab) utilizes the same variable regions from the therapeutic antibody

Nivolumab making it ideal for research projects.

**Endotoxin Level**: < 1.0 EU/mg as determined by the LAL method

**Applications**: FC

**Synonyms**: PD1; PD-1; CD279; SLEB2; hPD-1; hPD-l; hSLE1



**Antigen Distribution**: PD-1 is expressed on a subset of CD4-CD8- thymocytes, and on activated T and B cells.

Immunogen: Human PD-1

Formulation: This Allophycocyanin (APC) conjugate is formulated in 0.01 M phosphate buffered saline

(150 mM NaCl) PBS pH 7.4, 1% BSA and 0.09% sodium azide as a preservative.

**Specificity**: This non-therapeutic biosimilar antibody uses the same variable region sequence as the

therapeutic antibody Nivolumab. Clone 5C4.B8 binds to the extracellular portion of

Human/Cynomolgus PD-1 and does not bind to other IgG superfamily proteins. This

product is for research use only.

Pathogen Testing: -

**Storage & Handling**: This Allophycocyanin (APC) conjugate is stable when stored at 2-8°C.Do not freeze.