

IVMB0436

Product Information

Product SKU: IVMB0436	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.¹ 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.² 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.³ 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.⁴ 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.

Product Concentration: 0.2 mg/ml

Applications: FA

Synonyms: PD1; PD-1; CD279; SLEB2; hPD-1; hPD-I; 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 R-phycoerythrin (R-PE) 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 R-phycoerythrin (R-PE) conjugate is stable when stored at 2-8°C. Do not freeze.