Recombinant Protein Technical Manual

Recombinant Human PD/PDCD1 Protein (Fc Tag)(Active)

RPES0304

Product Data:

Product SKU: RPES0304

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q15116

Protein Information:

Molecular Mass:	43.6 kDa
AP Molecular Mass:	60-70 kDa
Tag:	C-Fc
Bio-activity:	Immobilized Human PD-Fc at 1µg/ml(100 µl/well) can bind Biotinylated Human PD-L1-Fc(Cat: PKSH033557). The ED50 of PD-Fc is 38.696ug/ml .
Purity:	> 95% as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	Lyophilized protein should be stored at < -20℃, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Programmed cell death protein 1;PDCD1;PD;hPD;CD279;SLEB2;Hsle1

Immunogen Information:

Sequence: Pro21-Gln167

Background:

Programmed cell death protein 1(PDCD1) is a single-pass type I membrane protein and contains 1 Ig-like V-type domain. PD is a member of the extended CD28/CTLA-4 family of T cell regulators. PDCD1 inhibits the T-cell proliferation and production of related cytokines including IL, IL-4, IL0 and IFN-γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PDCD1 inhibits BCR-mediating signal by dephosphorylating key signal transducer. PDCD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance, and thus contributes to the prevention of autoimmune diseases. As a cell surface molecule, PDCD1 regulates the adaptive immune response. Engagement of PD by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function.