

CD279/PD1-FC recombinant protein

Catalog No :	YD3057
Reactivity :	Human;
Purity :	>90% as determined by SDS-PAGE
Gene Name :	PDCD1
Protein Name :	Programmed cell death protein 1 (Protein PD-1) (hPD-1) (CD antigen CD279)
Sequence :	Amino acid:24-170,with FC tag.
Human Gene Id :	5133
Human Swiss Prot No :	Q15116
Formulation :	Phosphate-buffered solution
Source :	Mammalian cells
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Function :	<p>Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self (PubMed:21276005). Delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2 (PubMed:21276005). Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation (By similarity). Suppresses T-cell activation through the recruitment of PTPN11/SHP-2: following ligand-binding, PDCD1 is phosphorylated within the ITSM motif, leading to the recruitment of the protein tyrosine phosphatase PTPN11/SHP-2 that mediates dephosphorylation of key TCR proximal signaling molecules, such as ZAP70, PRKCQ/PKCtheta and CD247/CD3zeta (By similarity).; The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the im</p>
Subcellular Location :	Cell membrane ; Single-pass type I membrane protein.



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