

Recombinant Mouse Pcd1 Protein, DDK/His-tagged

Cat. No. Pcd1-4729M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse programmed cell death 1 (PD-1 / PDCD1), with C-terminal DDK/His tag, expressed in human cells.
Species	Mouse
Source	HEK293
Protein Length	Leu25 – Gln167
Description	<p>Inhibitory receptor on antigen activated T-cells that plays a critical role in induction and maintenance of immune tolerance to self. Delivers inhibitory signals upon binding to ligands, such as CD274/PDCD1L1 and CD273/PDCD1LG2. Following T-cell receptor (TCR) engagement, PDCD1 associates with CD3-TCR in the immunological synapse and directly inhibits T-cell activation. 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. The PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival.</p>
Molecular Mass	19 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	PBS, pH 7.4, 10% glycerol

GENE INFORMATION

Gene Name	Pdcd1 programmed cell death 1 [Mus musculus (house mouse)]
Official Symbol	Pdcd1
Synonyms	PDCD1; programmed cell death 1; programmed cell death protein 1; mPD-1; protein PD-1; PD-1; Pdc1; Ly101
Gene ID	18566
mRNA Refseq	NM_008798
Protein Refseq	NP_032824
UniProt ID	Q02242

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