

Product datasheet for **TP310364L**

PD1 (PDCD1) (NM_005018) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human programmed cell death 1 (PDCD1), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA >RC210364 protein sequence

Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MQIPQAPWPVWVAVLQLGWRPGWFLDSPDRPWNPTFSPALLVTEGDNATFTCSFSNTSESVLNWYRM
SPSNQTDKLAAPEDRSQPGQDCRFRTQLPNGRDFHMSVRARRNDSGYLCGAISLAPKAQIKESLRA
ELRVTERRAEVPTAHPSPSRPAGQFQTLVGVVGGLLGSLVLLVWVLAVICRAARGTIGARRTGQPLK
EDPSAVPVFSVDYGELDFQWREKTPEPPVPCVPEQTEYATIVFPSGMGTSSPARRGSADGPRSAQPLRPE
DGHCSWPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 29.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005009](#)

Locus ID: 5133



[View online »](#)

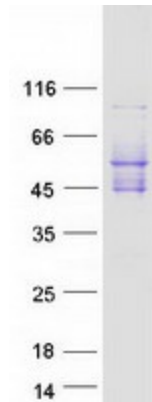
UniProt ID: [Q15116](#), [A0A0M3M0G7](#)
RefSeq Size: 2115
Cytogenetics: 2q37.3
RefSeq ORF: 864
Synonyms: CD279; hPD-1; hPD-I; hSLE1; PD-1; PD1; SLEB2

Summary: Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity. [provided by RefSeq, Aug 2020]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified PDCD1 protein (Cat# [TP310364]). The protein was produced from HEK293T cells transfected with PDCD1 cDNA clone (Cat# [RC210364]) using MegaTran 2.0 (Cat# [TT210002]).