ProtTech®

ProtTech Inc.
136 Green Tree Rd., Suite 180, Phoenixville, PA19460
Tel: 484-392-7035 Fax: 484-392-7031 Email: info@prottech.com

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Certificate of Analysis

Human PD-L1, biotin labeled

Catalog #	Size	Concentration	price
PT-OP-0003-50	50 ug	0.5 mg/mL	
PT-OP-0003-100	100 ug	0.5 mg/mL	
PT-OP-0003-1mg	1 mg	0.5 mg/mL	

Product Description: PD-L1 is a ligand for program cell death 1 (PD1). PD-L1 suppresses immune response against tumor cells upon binding to PD1 receptor. PD-L1 is expressed on T and B cells, macrophages, dendritic cells, and some nonimmune cells. Antibody binding against PD-1 or PD-L1 leads to antitumor immunity. The C-terminal of this protein is biotinylated by biotin ligase.

Quality control assay: Correct disulfide bonds in PD-L1 were verified by Mass Spectrometry analyses. PD-L1 biotinylation is confirmed by streptavidin binding assay.

Storage/Stability: Avoid repeated freeze-thaw cycles. 12 months at -20 C to -80 C. 1 month at 2 C to 8 C.

Synonyms: B7-H1, Program cell death 1 ligand 1, PDCD1 ligand 1

Sequence: MPGFTVTVPK DLYVVEYGSN MTIECKFPVE KQLDLAALIV YWEMEDKNII QFVHGEEDLK VQHSSYRQRA RLLKDQLSLG NAALQITDVK LQDAGVYRCM ISYGGADYKR ITVKVNAPYN KINQRILVVD PVTSEHELTC QAEGYPKAEV IWTSSDHQVL SGKTTTTNSK REEKLFNVTS TLRINTTTNE IFYCTFRRLD PEENHTAELV IPELPLAHPP NERTHHHHHH GGGLNDIFEA QKIEWHE

Accession #: Q9NZQ7

Purity: >95% by SDS-PAGE gel

Source: E. Coli

Formulation: 10 mM Bicine buffer at pH8.3, 50% glycerol.

Usage: FOR LABORATORY RESEARCH USE ONLY.

References:
1. Hamanishi, Junzo, et al. "Programmed cell death 1 ligand 1 and tumor-infiltrating CD8+ T lymphocytes are prognostic factors of human ovarian

cancer." *Proceedings of the National Academy of Sciences* 104.9 (2007): 3360-3365.

2. Lin, David Yin-wei, et al. "The PD-1/PD-L1 complex resembles the antigen-binding Fv domains of antibodies and T cell receptors." *Proceedings of the National Academy of Sciences* 105.8 (2008): 3011-3016.
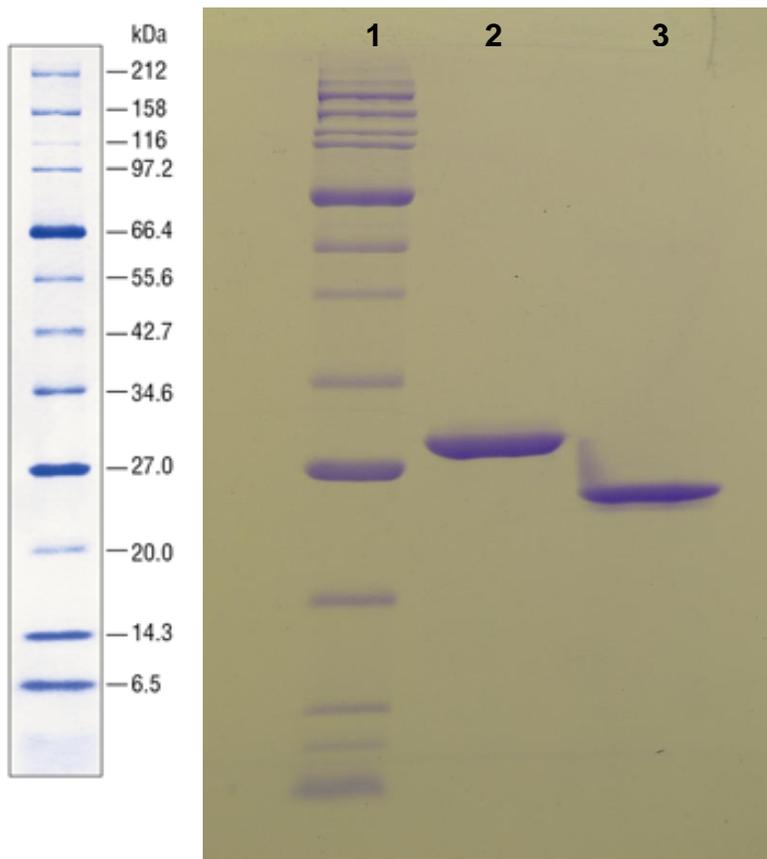

Figure 1. PD-L1 SDS PAGE gel. Lane 1, protein marker; lane 2, PD-L1 with a mass of 30 kDa on SDS-PAGE under reducing environment; lane 3, PD-L1 with a mass of 26 kDa on SDS-PAGE under oxidized environment.