

PD-L1 Recombinant Protein | CD274 recombinant protein

PD-L1 Protein, Human, Recombinant (ECD, mFc Tag)

CATALOG #
AAA257400

HOST
HEK293 Cells

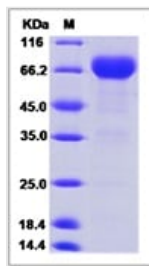
PRODUCT SYNONYMS

PD-L1; PD-L1 Protein; Human; Recombinant (ECD; mFc Tag); Human PD-L1/B7-H1/CD274 Protein (ECD; CD274 molecule; B7-H Protein; B7-H1 Protein; B7H1 Protein; PDCD1L1 Protein; PDCD1LG1 Protein; PDL1 Protein; CD274 recombinant protein

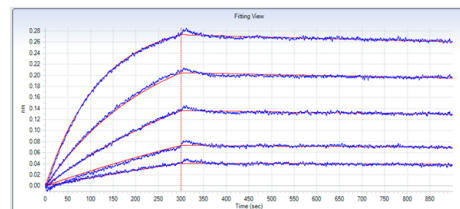
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95 % as determined by SDS-PAGE.
Form/Format	Lyophilized from 20 mM Tris, 150 mM NaCl, 10% Glycerol, pH8.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	455aa
Sequence	Met1-Thr239
Species	Human
Tag	mFc
Endotoxin	<1.0EU per ug protein as determined by the LAL method
Predicted N Terminal	Phe19
Protein Construction	JA DNA sequence encoding the human CD274 (NP_054862.1) (Met1-Thr239) was expressed with the Fc region of mouse IgG1 at the C-terminus
Activity	1. Measured by its binding ability in a functional ELISA. Immobilized recombinant Human PD1-His (Cat:10377-H08H) at 10ug/ml (100ul/well) can bind human PD-L1 (Cat:10084-H05H) with a linear range of 1.28-20ug/ml. 2. Labeled biotin to PD-L1 Protein, Human, Recombinant (ECD, Fc Tag) by a certain molar ratio; Using the Octet RED System. The affinity constant (Kd) of PD-L1 Protein, Human, Recombinant (ECD, Fc Tag), Biotinylated (Cat. 10084-H05H-B) bound to Atezolizumab was 0.1nM.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES

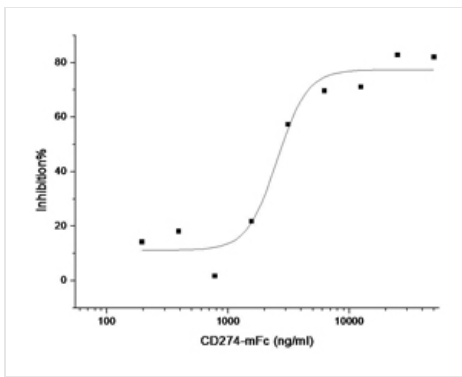


Application Data



FCM/FACS (Flow Cytometry)

Labeled biotin to PD-L1 Protein, Human, Recombinant (ECD, Fc Tag) by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of PD-L1 Protein, Human, Recombinant (ECD, Fc Tag), Biotinylated bound to Atezolizumab was 0.1 nM.



Application Data

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human PD1-His (Cat:10377-H08H) at 10 ug/ml (100 ul/well) can bind human PD-L1 (Cat:10084-H05H) with a linear range of 1.28-20 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for CD274 recombinant protein	Programmed death-1 ligand-1 (PD-L1, CD274, B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1(PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. PD-L1/B7-H1 is a member of the growing B7 family of immune molecules and this protein contains one V-like and one C-like Ig domain within the extracellular domain, and together with PD-L2, are two ligands for PD1 which belongs to the CD28/CTLA4 family expressed on activated lymphoid cells. By binding to PD1 on activated T-cells and B-cells, PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly, it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.
Product Categories/Family for CD274 recombinant protein	Cancer Drug Targets
References	Iwai Y, et al. (2002) Involvement of PD-L1 on tumor cells in the escape from host immune system and tumor immunotherapy by PD-L1 blockade. Proc Natl Acad Sci U S A. 99(19): 12293-7. Ghebeh H, et al. (2006) The B7-H1 (PD-L1) T lymphocyte-inhibitory molecule is expressed in breast cancer patients with infiltrating ductal carcinoma: correlation with important high-risk prognostic factors. Neoplasia. 8(3): 190-8. Salih HR, et al. (2006) The role of leukemia-derived B7-H1 (PD-L1) in tumor-T-cell interactions in humans. Exp Hematol. 34(7): 888-94. Wilcox RA, et al. (2009) B7-H1 (PD-L1, CD274) suppresses host immunity in T-cell lymphoproliferative disorders. Blood. 114(10): 2149-58. Ruggiero A, et al. (2009) Crystal structure of PD-L1, a ribosome inactivating protein from Phytolacca dioica L. leaves with the property to induce DNA cleavage. Biopolymers. 91(12): 1135-42.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7661534
NCBI GeneID	29126
NCBI Accession #	NP_054862.1
NCBI GenBank Nucleotide #	NM_014143.3
UniProt Accession #	Q9NZQ7 ; Q14CJ2 ; Q2V8D5 ; Q66RK1 ; Q6WEX4 ; Q9NUZ5 ; B2RBA2 ; B4DU27
Molecular Weight	20,246 Da
NCBI Official Full Name	programmed cell death 1 ligand 1 isoform a
NCBI Official Synonym Full Names	CD274 molecule
NCBI Official Symbol	CD274
NCBI Official Synonym Symbols	B7-H; B7H1; PDL1; PD-L1; PDCD1L1; PDCD1LG1
NCBI Protein Information	programmed cell death 1 ligand 1

UniProt Protein Name	Programmed cell death 1 ligand 1
UniProt Gene Name	CD274
UniProt Synonym Gene Names	B7H1; PDCD1L1; PDCD1LG1; PDL1; PD-L1; PDCD1 ligand 1; Programmed death ligand 1; B7-H1
UniProt Entry Name	PD1L1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cd274-recombinant-protein-hek293-cells/257400>