Human CellExp™ PD-L1 / CD274 / B7-H1, Human Recombinant

CATALOG NO:	7429-10	10 µg
	7429-50	50 µg
	7429-250	250 µg
	7429-1000	1 mg
ALTERNATE NAMES:	CD274, B7-H, B7H1, PDL1, PD-L1, PDCD1L1, PDCD1LG1	
SOURCE:	HEK 293 cells (Phe 19 - Arg 238)	
PURITY:	> 95% by SDS-PAGE; > 90% by SEC-HPLC	
MOL. WEIGHT:	This protein is fused with polyhistidine tag at the C-terminus and has a calculated MW of 26.4 kDa (19-238aa). Under reducing conditions the protein migrates as ~35-40 kDa bands in SDS-PAGE due to glycosylation.	
FORM:	Lyophilized	
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS pH 7.4	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.	
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water.	
DESCRIPTION:	Programmed cell death 1 ligand 1 (PD-L1) is also known as cluster of differentiation (CD274) or B7 homolog 1 (B7-H1). It has been identified as the ligand for PD1/PDCD1 (Cat. No. 7498) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. PD-L1 is highly expressed in the heart, skeletal muscle, placenta, lung and weakly expressed in the thymus, spleen, kidney and liver. Through 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, which makes it a promising therapeutic target for human autoimmune disease and malignant cancers. In tumor cells, PD-L1 is considered to be prognostic in many types of human malignancies, including colon cancer and renal cell carcinoma.	
BIOLOGICAL ACTIVITY:	Measured by its binding ability in a functional ELISA. Immobilized Human PD-L1, His Tag at 5 µg/mL (100 µL/well) can bind Human PD-1, His Tag with a linear range of 0.15-1.25 µg/mL	

FOR RESEARCH USE ONLY! Not to be used on humans.

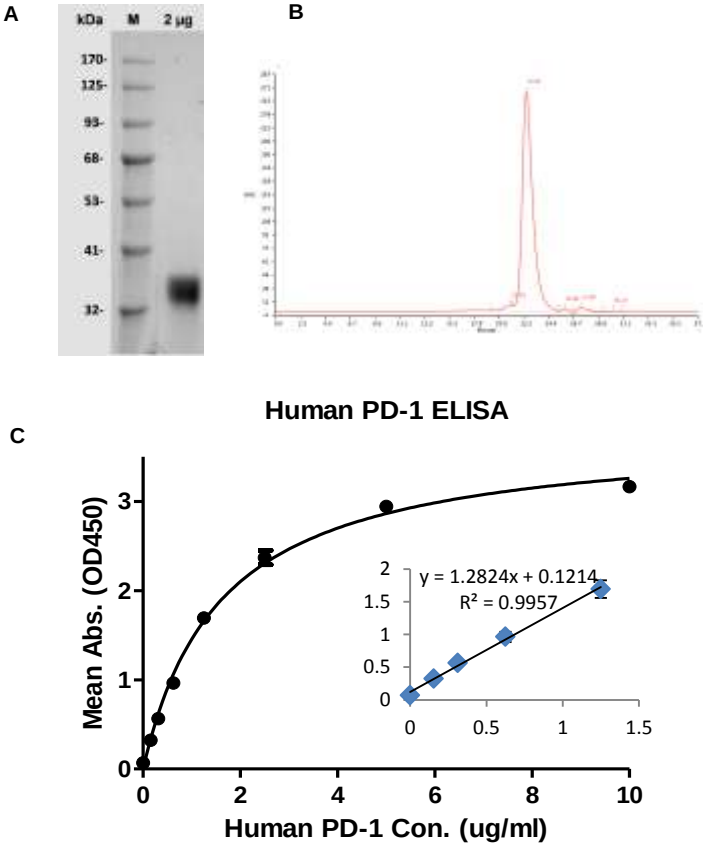

Fig A. SDS-PAGE (4-20%) of Recombinant Human PD-1: 2 µg Human PD-1 recombinant protein loaded under reducing conditions and stained with Coomassie Blue.

Fig B. SEC-HPLC: Human PD-L1 protein sample analyzed using Superose 6 Increase™ 5x150 column in 50 mM sodium phosphate; 0.3 M NaCl pH 7.2 at 100 µl/min and monitored at 280 nm**.**

Fig C. Biological activity: Immobilized Human PD-L1, His Tag at 5 µg/mL (100 µL/well) can bind Human PD-1, His Tag with a linear range of 0.15-1.25 µg/mL.

RELATED PRODUCT:

- Human CellExp™ CD223, human recombinant **(Cat. No. 7278-10, -50)**
- Human CellExp™ CD71, human recombinant **(Cat. No. 7279-10, -50)**
- Human CellExp™ CD273, human recombinant **(Cat. No. 7369-10, -50)**
- Human CellExp™ CD33, human recombinant **(Cat. No. 7370-10, -50)**
- Human CellExp™ CD36, human recombinant **(Cat. No. 7371-10, -50)**