

Human PD-L1/CD274 ELISA Kit | PD-L1/CD274 elisa kit

Human PD-L1/CD274 ELISA Kit

CATALOG #
AAA258323

REACTIVITY
Human

PRODUCT SYNONYMS

PD-L1/CD274; Human PD-L1/CD274 ELISA Kit; PD-L1 ELISA Kit; Human; CD274 molecule; B7-H ELISA Kit; B7-H1 ELISA Kit; B7H1 ELISA Kit; PDCD1L1 ELISA Kit; PDCD1LG1 ELISA Kit; PDL1 ELISA Kit; PD-L1/CD274 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human PD-L1/CD274 concentration in serum, cell culture supernates and plasma.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant, Plasma
Detection Range	10.94-700pg/mL
Sensitivity	4.64pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human PD-L1 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

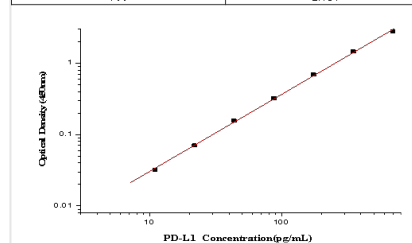
IMAGES

Recombinant human			
B7-2-Fc	B7-H2/Fc	B7-H3	B7-H4
B7-H6/Fc	PD-L2/Fc		
Recombinant mouse			
B7-H1/Fc			
Recombinant rat			
B7-1/Fc			

Application Data

This assay recognizes both recombinant and natural human PD-L1. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
10.94	0.032
21.88	0.070
43.75	0.156
87.5	0.321
175	0.688
350	1.450
700	2.757



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for PD-L1/CD274 elisa kit	This PD-L1 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human PD-L1 protein in Serum, Cell supernatant, Plasma. It contains recombinant Human PD-L1, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: 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.
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.

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.