

Human PD-L1 Antibody Pair Set

Catalog No.	E-KAB-0463	Applications	ELISA
Synonyms	CD274;B7-H1;PD-L1;PDCD1L1;PDL1;B7 homolog 1		

Kit components & Storage

Title	Specifications	Storage
Human PD-L1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human PD-L1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0463)	
		Human PD-L1 Capture Antibody	Human PD-L1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human PD-L1 protien	Recombinant Human PD-L1 protien
	Swissprot	Q9NZQ7	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human PD-L1 in ELISAs.	

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Applications

Human PD-L1 Sandwich ELISA Assay

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human PD-L1 Capture Antibody	<table border="1"> <caption>Standard Curve Data (Approximate)</caption> <thead> <tr> <th>Human PD-L1 Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>0.1</td><td>0.1</td></tr> <tr><td>0.2</td><td>0.2</td></tr> <tr><td>0.5</td><td>0.5</td></tr> <tr><td>1</td><td>1</td></tr> <tr><td>2</td><td>2</td></tr> <tr><td>5</td><td>5</td></tr> <tr><td>10</td><td>10</td></tr> </tbody> </table>	Human PD-L1 Concentration (ng/mL)	Optical Density	0.1	0.1	0.2	0.2	0.5	0.5	1	1	2	2	5	5	10	10
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ELISA Detection	1:1000-1:10000	Human PD-L1 Detection Antibody (Biotin)																	

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

Background

Programmed cell death ligand 1 (CD274; or B7-H1; PD-L1) is the first member of B7 family to be discovered. B7 family molecules are type I transmembrane proteins belonging to the immunoglobulin superfamily. In concert with their CD28 family receptors, the B7s are key regulators of the adaptive immune response. CD274 is suggested a negative regulator of T and B cell, and play important role in mediating tolerance of lymphocytes to self-antigens. It also involved in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PDCD1-independent manner. PD-L1 is a 290 aa transmembrane protein with a calculated molecular weight of 33 kDa; the apparent molecular weight has been reported as 45-70 kDa, suggesting probable glycosylation.

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