

For Research Use Only

# FcZero-rAb® CoraLite®555 Anti-Human PD-L1/CD274 Rabbit Recombinant Antibody

Catalog Number:CL555-FcA98062



## Basic Information

<b>Catalog Number:</b> CL555-FcA98062	<b>GenBank Accession Number:</b> BC074984	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 100tests, 5 ul/test	<b>GeneID (NCBI):</b> 29126	<b>CloneNo.:</b> 240721H8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NZQ7	<b>Recommended Dilutions:</b> FC: 5 ul per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>Full Name:</b> CD274 molecule	<b>Excitation/Emission maxima wavelengths:</b> 557 nm / 570 nm
<b>Immunogen Catalog Number:</b> EG1114	<b>Calculated MW:</b> 290 aa, 33 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
human

**Positive Controls:**

FC : PHA treated human PBMCs,

## Background Information

Programmed cell death ligand 1 (PD-L1, CD274, or B7-H1), 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. PD-L1 is suggested as a negative regulator of T and B cell, and plays important role in mediating tolerance of lymphocytes to self-antigens. It is also involved in the costimulatory signal, essential for T-cell proliferation and production of IL10 and IFNG, in an IL2-dependent and a PD-1-independent manner. PD-L1 is a 290 aa transmembrane protein with a calculated molecular weight of 33 kDa, it is predicted to be 27-30 kDa after signal peptide cleavage (PMID: 25609200; 17076679). The apparent molecular weight has also been reported as 45-70 kDa, major glycosylated form of 45-50 kDa and multiple post-translational modifications form of 65-70 kDa (PMID: 18760278; 16493058).

## Storage

**Storage:**

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

For technical support and original validation data for this product please contact:

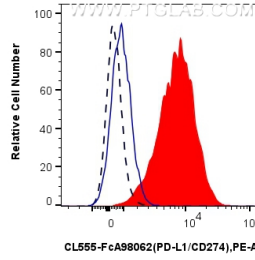
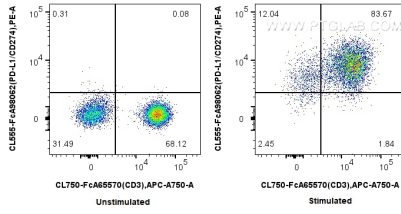
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



1x10<sup>6</sup> untreated (left) or PHA-treated (right) were surface stained with FcZero-rAb® Coralite® Plus 750 Anti-Human CD3 (UCHT1) and 5 ul Coralite®555 Anti-Human PD-L1/CD274 Rabbit RecAb (CL555-FcA98062, Clone: 240721H8). Cells were not fixed.

1x10<sup>6</sup> PHA-treated human PBMCs were surface stained with 5 ul Coralite®555 Anti-Human PD-L1/CD274 Rabbit RecAb (CL555-FcA98062, Clone: 240721H8) (red) or FcZero-rAb® Coralite® Plus 594 Rabbit IgG Isotype Control Recombinant Antibody (CL594-FcA98136, Clone: 240953C9) (blue). 1x10<sup>6</sup> untreated human PBMCs were surface stained with 5 ul Coralite®555 Anti-Human PD-L1/CD274 Rabbit RecAb (CL555-FcA98062, Clone: 240721H8) (black, dashed).

