

For Research Use Only

CoraLite® Plus 647-conjugated PD-L1/CD274 Monoclonal antibody

Catalog Number: CL647-66248

Featured Product



Basic Information

Catalog Number: CL647-66248	GenBank Accession Number: BC074984	Purification Method: Protein G purification
Source: Mouse	GeneID (NCBI): 29126	CloneNo.: 2B11D11
Isotype: IgG1	UNIPROT ID: Q9NZQ7	Recommended Dilutions: IF-P: 1:50-1:500
Immunogen Catalog Number: AG12443	Full Name: CD274 molecule	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
	Calculated MW: 290 aa, 33 kDa	
	Observed MW: 45-50 kDa, 33 kDa	

Applications

Tested Applications: IF-P	Positive Controls: IF-P: mouse thymus tissue,
Species Specificity: human, mouse, rat, pig	

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 -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse thymus tissue using CoraLite® Plus 647 PD-L1/CD274 antibody (CL647-66248, Clone: 2B11D11) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).