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10-7599: Monoclonal antibody to Human PD-L1 (Clone: ABM5F25)

Clonality :	Monoclonal
Clone Name :	ABM5F25
Application :	IHC,FACS,WB
Reactivity :	Human
Gene :	CD274
Gene ID :	29126
Uniprot ID :	Q9NZQ7
Format :	Purified
Alternative Name :	CD274,B7H1,PDCD1L1,PDCD1LG1,PDL1
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A partial length recombinant protein of PD-L1 (amino acid 13-224) was used as the immunogen for this antibody.

Description

PD-L1 (CD274/B7-H1) is a critical membrane-bound costimulatory molecule belonging to the B7 superfamily that inhibits immune responses through its receptor, PD-1. PD-L1 plays a key role in the pathogenesis of inflammatory diseases (programmed death 1). It is widely expressed in the mononuclear phagocyte system (MPS), may co-stimulate T cells, and regulates inflammatory responses. PD-L1 exerts inflammation regulatory functions via a negative co-stimulatory effect on T cell functions to inhibit cytokine secretion, facilitates apoptosis of activated T cells, and induces T cell anergy. Aberrant expression and dysregulation of CD274 have been reported during bacterial infection, inflammation, and in numerous autoimmune diseases.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

FACS analysis: 0.5-1 µg/10^6 cells; Western blot analysis: 2-4 µg/ml; Immunohistochemical analysis: 5-10 µg/ml

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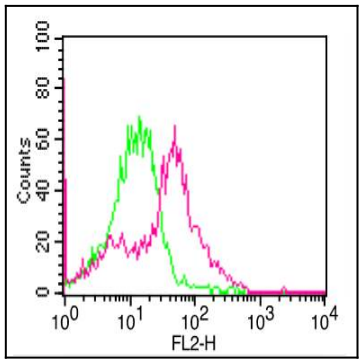

Fig:1- Cell Surface flow analysis of PD-L1 in 3 day-PHA treated human PBMC cells using 1 µg/10^6 cells of PD-L1 antibody (Clone: ABM5F25). Green represents isotype control; red represents anti-PD-L1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

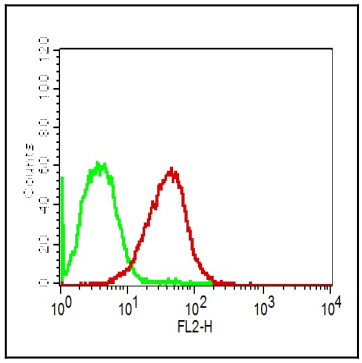

Fig-2: Cell surface flow analysis of PD-L1 in CHO-PD-L1 transfected cell line using 0.5 µg/10^6 cells of PD-L1 antibody (Clone: ABM5F25). Green represents isotype control; red represents anti-PD-L1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

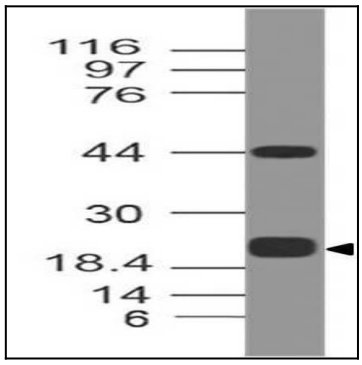

Fig-3: Western blot analysis of PDL1. Anti-PD-L1 antibody (Clone: ABM5F25) was tested at 0.5 µg/ml on Recombinant lysate.

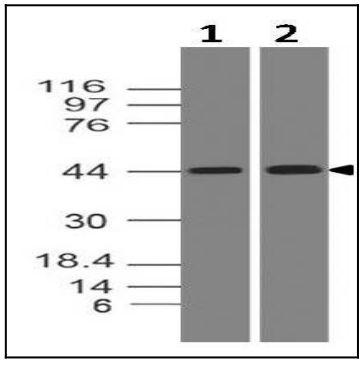

Fig-4: Western blot analysis of PDL1. Anti-PD-L1 antibody (Clone: ABM5F25) was tested at 2 µg/ml on (1) Daudi and (2) HepG2 lysates.

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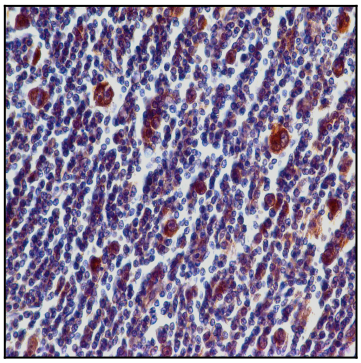

Fig-5: Immunohistochemical analysis of PD-L1 in Hodkin's Lymphoma tissue using PD-L1 antibody (Clone: ABM5F25) at 5 µg/ml.

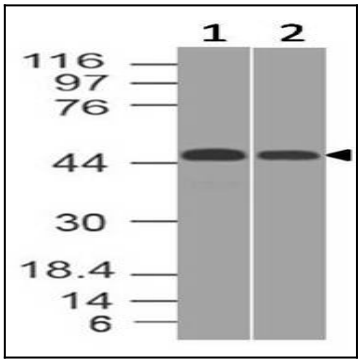

Fig-6: Western blot analysis of PDL1. Anti-PD-L1 antibody (Clone: ABM5F25) was tested at 0.5 µg/ml on (1) U87 and (2) THP1 lysates.