

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

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| Clonality : | Monoclonal |
| 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 belongs to the B7 superfamily that inhibits immune responses through its receptor, PD-1 and PD-L1 play 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, facilitate apoptosis of activated T cells and induce T cell anergy. Aberrant expression and dysregulation of CD274 have been reported during bacterial infection, inflammation and in numerous autoimmune diseases.

Product Info

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| 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/10⁶ cells; Western blot analysis: 2-4 µg/ml; Immunohistochemical analysis: 5-10 µg/ml

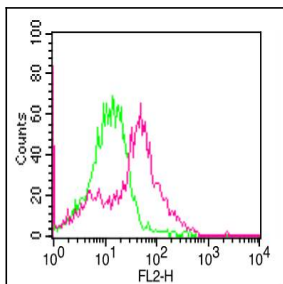


Fig:1- Cell Surface flow analysis of PD-L1 in 3 day-PHA treated human PBMC cells using 1 µg/10⁶ cells of PD-L1 antibody (Clone: ABM5F25). Green represents isotype control; red represents anti-PD-L1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

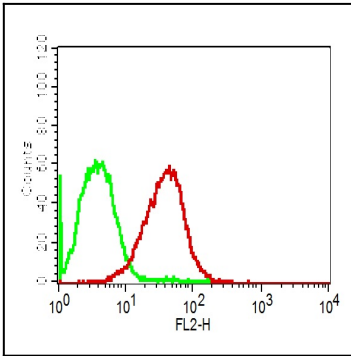


Fig-2: Cell surface flow analysis of PD-L1 in CHO-PD-L1 transfected cell line using 0.5 $\mu\text{g}/10^6$ cells of PD-L1 antibody (Clone: ABM5F25). Green represents isotype control; red represents anti-PD-L1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

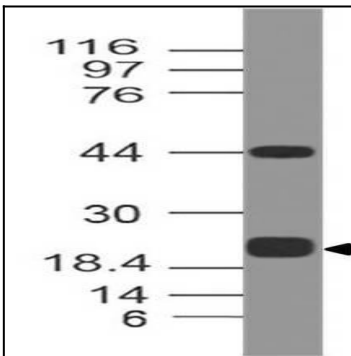


Fig-3: Western blot analysis of PDL1. Anti-PD-L1 antibody (Clone: ABM5F25) was tested at 0.5 $\mu\text{g}/\text{ml}$ on Recombinant lysate.

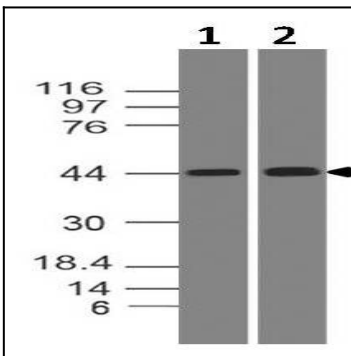


Fig-4: Western blot analysis of PDL1. Anti-PD-L1 antibody (Clone: ABM5F25) was tested at 2 $\mu\text{g}/\text{ml}$ on (1) Daudi and (2) HepG2 lysates.

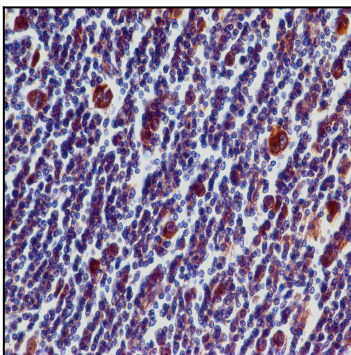


Fig-5: Immunohistochemical analysis of PD-L1 in Hodkin's Lymphoma tissue using PD-L1 antibody (Clone: ABM5F25) at 5 $\mu\text{g}/\text{ml}$.