

## 10-7562-NALE: NALE™ Monoclonal Antibody to Human PD-L1 (Clone: ABM4E54) (No Azide Low Endotoxin)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM4E54
<b>Application :</b>	IHC,FACS,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD274
<b>Gene ID :</b>	29126
<b>Uniprot ID :</b>	Q9NZQ7
<b>Format :</b>	Azide Free,Purified
<b>Alternative Name :</b>	CD274,B7H1,PDCD1L1,PDCD1LG1,PDL1
<b>Isotype :</b>	Mouse IgG2a Kappa
<b>Immunogen Information :</b>	A partial length recombinant PDL1 protein (amino acids 18-227) 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

<b>Amount :</b>	100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA. Azide free, low endotoxin.
<b>Storage condition :</b>	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

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

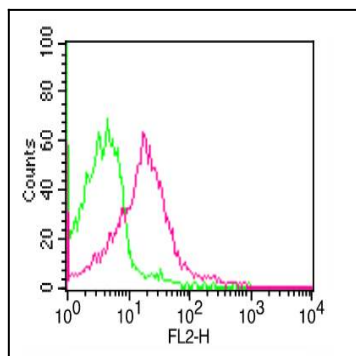


Fig-1: Cell Surface FLOW analysis of PD-L1 in PHA treated human PBMC using 1  $\mu$ g of PD-L1 antibody (Clone: ABM4E54). Green represents isotype control; red represents anti-PD-L1 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

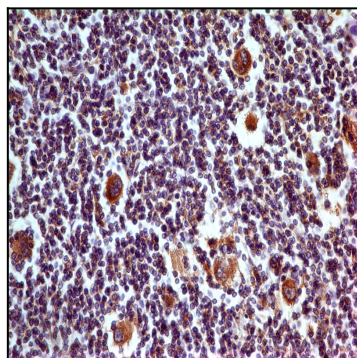


Fig-2: Immunohistochemical analysis of PD-L1 in Hodgkin's Lymphoma tissue using PD-L1 antibody (Clone: ABM4E54) at 5  $\mu$ g/ml.

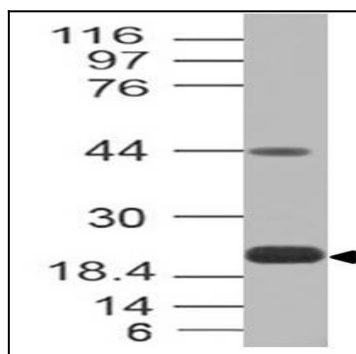


Fig-3: Western blot analysis of PD-L1. Anti-PD-L1 antibody (Clone: ABM4E54) was tested at 0.5  $\mu$ g/ml on Recombinant lysates.

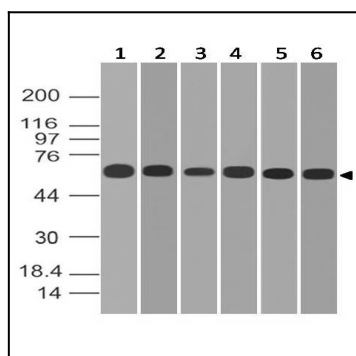


Figure-4: Western blot analysis of PD-L1. Anti-PD-L1 antibody (Clone: ABM4E54) was tested at 2  $\mu$ g/ml on (1) A549, (2) MCF-7, (3) 293, (4) HCT-116, (5) Saos2 and (6) Hela lysates.

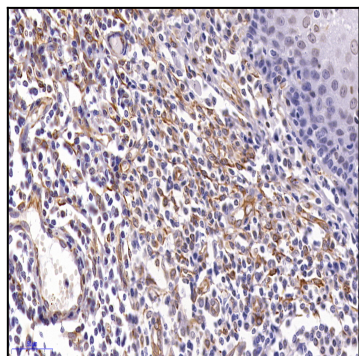


Figure-5: Immunohistochemical analysis of PD-L1 in Human Tonsil tissue using PD-L1 antibody (Clone: ABM4E54) at 5 µg/ml.

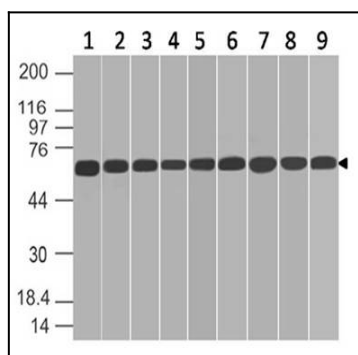


Figure-6: Western blot analysis of PD-L1. Anti-PD-L1 antibody (Clone: ABM4E54) was tested at 0.5 µg/ml on (1) HepG2, (2) SKBR3, (3) A431, (4) THP1, (5) NCCIT, (6) PC3, (7) PANC-1, (8) U87 and (9) KATO-111 lysates.

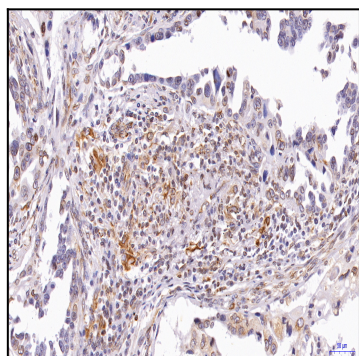


Figure-7: Immunohistochemical analysis of PD-L1 in Human Lung Cancer tissue using PD-L1 antibody (Clone: ABM4E54).

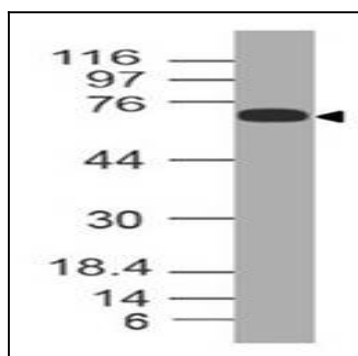


Figure-8: Western blot analysis of PD-L1. Anti-PD-L1 antibody (Clone: ABM4E54) was tested at 2 µg/ml on h Spleen lysate.