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antibody and ELISA experts

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Anti-PDL1 CD274 Monoclonal Antibody [6H10]

Catalog Number: M00109-3

About CD274

PD-L1 plays a critical role in induction and maintenance of immune tolerance to self. As a ligand for the inhibitory receptor PDCD1/CD279, PD-L1 modulates the activation threshold of T-cells and limits T-cell effector response (1). The PDCD1/CD279-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and facilitate tumor survival (2,3). Through a yet unknown activating receptor, it may costimulate T-cell subsets that predominantly produce interleukin-10 (IL10) (4).

Overview

Product Name	Anti-PDL1 CD274 Monoclonal Antibody [6H10]
Reactive Species	Human, Mouse
Description	Boster Bio Anti-PDL1 CD274 Monoclonal Antibody [6H10] (Catalog # M00109-3). Tested in ELISA, WB, IHC-P, ICC, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, ICC, WB
Clonality	Monoclonal Clone: 6H10
Formulation	PD-L1 Antibody is supplied in PBS containing 0.02% sodium azide and 50% glycerol.
Storage Instructions	PD-L1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Mouse
Uniprot ID	Q9NZQ7

Technical Details

Immunogen	Anti-PD-L1 antibody was raised against the extracellular domain of human PD-L1.
Predicted Reactive Species	Mouse, Rat
Cross Reactivity	PD-L1 Antibody has no cross-reactivity to PD-L2.
Isotype	IgG1
Form	Liquid
Concentration	1 mg/mL
Purification	PD-L1 Antibody is supplied as protein A purified IgG1.
Suggested Dilutions	WB: 0.25 - 4 ug/mL; IF: 2 ug/mL; IHC-P: 5 ug/mL; ICC: 1 ug/mL. Antibody validated: Western Blot in human and mouse samples; Immunohistochemistry,

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	Immunocytochemistry and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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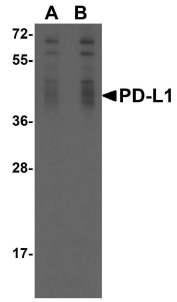
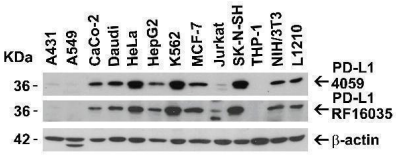
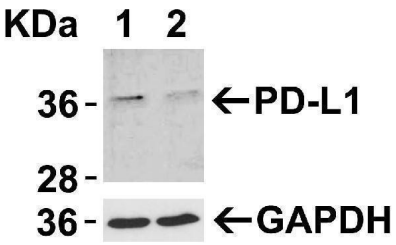
Anti-PDL1 CD274 Monoclonal Antibody [6H10] (M00109-3) Images



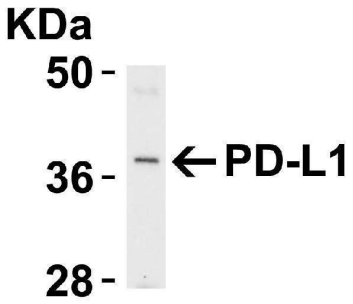
Overexpression Validation of PD-L1 in 293 Cells Loading: 15 ug of lysates per lane. Antibodies: M00109-3 (A, 0.25 ug/mL; B, 0.5 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-mouse IgG HRP conjugate at 1:5000 dilution.



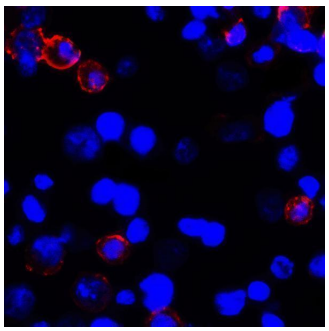
Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: 4059 (2 ug/mL), M00109-3 (2 ug/mL), and beta-actin (1 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit and or anti-mouse IgG HRP conjugate at 1:10000 and 1:5000 dilution, respectively.



Validation with PD-L1 siRNA Knockdown in HeLa Cells HeLa cells were transfected with control siRNAs (lane 1) or PD-L1 siRNAs (lane 2) Loading: 10 ug of HeLa whole cell lysates per lane. Antibodies: M00109-3 (2 ug/mL) and GAPDH (3783, 0.02 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-mouse IgG HRP conjugate at 1:5000 dilution.



Western Blot Validation of PD-L1 in Raji Cells Loading: Lysates/proteins at 15 ug per lane. Antibodies: M00109-3 (4 ug/mL). 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-mouse IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of PD-L1 in Transfected 293 Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed PD-L1 transfected 293 cells labeling PD-L1 with M00109-3 at 2 ug/mL, followed by goat anti-mouse IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

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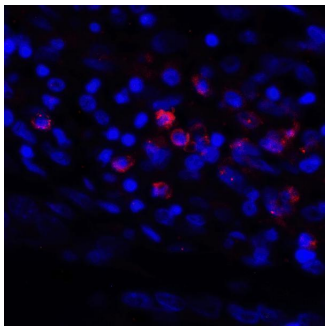
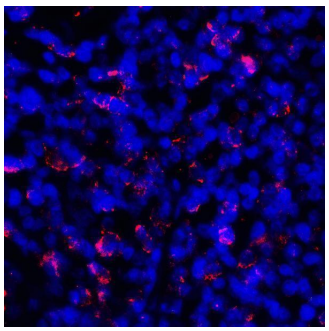
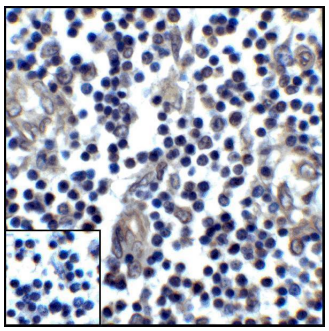


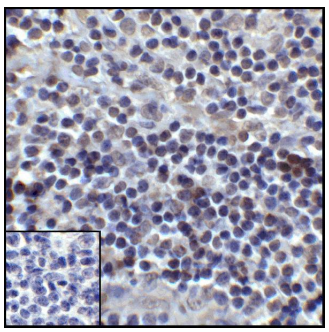
Immunofluorescence Validation of PD-L1 in Human Stomach Carcinoma Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed human stomach carcinoma tissue labeling PD-L1 with M00109-3 at 2 ug/mL, followed by goat anti-mouse IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



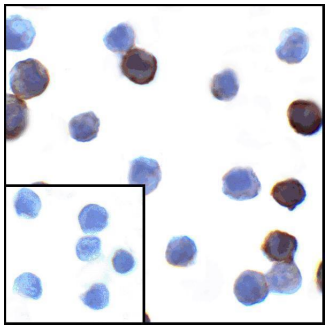
Immunofluorescence Validation of PD-L1 in Human Tonsil Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed human tonsil tissue labeling PD-L1 with M00109-3 at 2 ug/mL, followed by goat anti-mouse IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunohistochemistry Validation of PD-L1 in Human Stomach Carcinoma Tissue Immunohistochemical analysis of paraffin-embedded human stomach carcinoma tissue using anti-PD-L1 antibody (M00109-3) at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-mouse IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Lower left: Use mouse IgG antibody at 1 ug/ml as control.



Immunohistochemistry Validation of PD-L1 in Human Tonsil Carcinoma Tissue Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-PD-L1 antibody (M00109-3) at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-mouse IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Lower left: Use mouse IgG antibody at 1 ug/ml as control.



Immunocytochemistry Validation of PD-L1 in PD-L1 Overexpressed 293 Cells Immunocytochemical analysis of PD-L1 transfected 293 cells using anti- PD-L1 antibody (M00109-3) at 1 ug/mL. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚ C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Lower left: Use mouse IgG antibody at 1 ug/mL as control.

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