Product Datasheet

CD274 Antibody (orb1239770)

Catalog Number	orb1239770
Category	Antibodies
Description	CD274 Antibody
Target	CD274
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	Unconjugated
Reactivity	Human, Mouse
Predicted Reactivity	Rat
Form/Appearance	Liquid
Concentration	1 mg/mL
Buffer/Preservatives	PD-L1 Antibody is supplied in PBS containing 0.02% sodium azide and 50% glycerol.
Purification	PD-L1 Antibody is supplied as protein A purified IgG1.
Immunogen	Anti-PD-L1 antibody (orb1239770) was raised against the extracellular domain of human PD-L1.
UniProt ID	**Q9NZQ7**
MW	Predicted: 33kD Observed: 37kD

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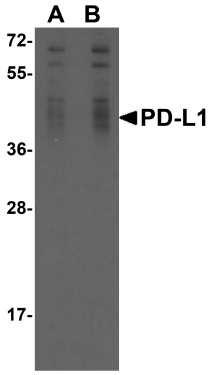
Tested applications	ELISA, ICC, IF, IHC-P, WB
Specificity	PD-L1 Antibody has no cross-reactivity to PD-L2.
Antibody Type	Primary Antibody
Clone Number	6H10
Modifications	None
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
NCBI	**NP_054862**
Expiration Date	12 months from date of receipt.



Overexpression Validation of PD-L1 in 293 Cells.Loading: 15 µg of lysates per lane. Antibodies: orb1239770 (A, 0.25 µg/mL; B, 0.5 µg/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-mouse IgG HRP conjugate at 1:5000 dilution.

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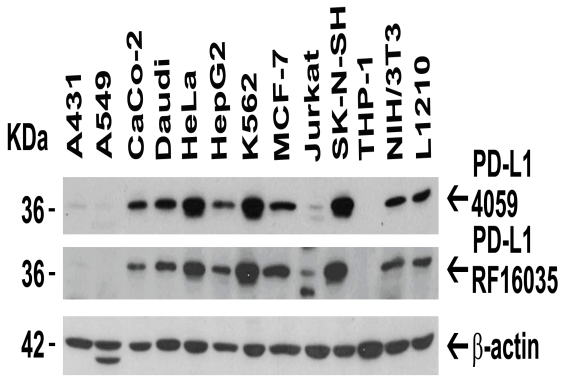
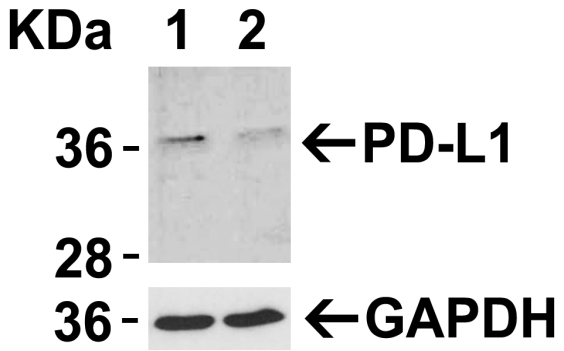
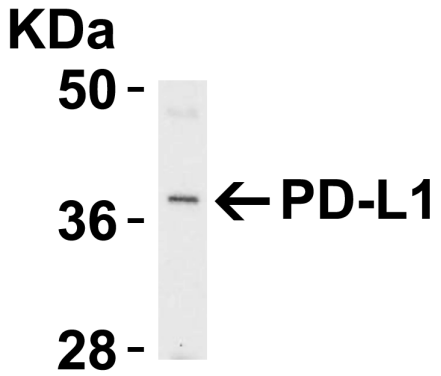


Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines.Loading: 15 µg of lysates per lane. Antibodies: orb1239835 (2 µg/mL), orb1239770 (2 µg/mL), and beta-actin (1 µg/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit and or anti-mouse IgG HRP conjugate 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 µg of HeLa whole cell lysates per lane. Antibodies: orb1239770 (2 µg/mL) and GAPDH (orb1239765, 0.02 µg/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 µg per lane. Antibodies: orb1239770 (4 µg/mL). 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-mouse IgG HRP conjugate at 1:10000 dilution.

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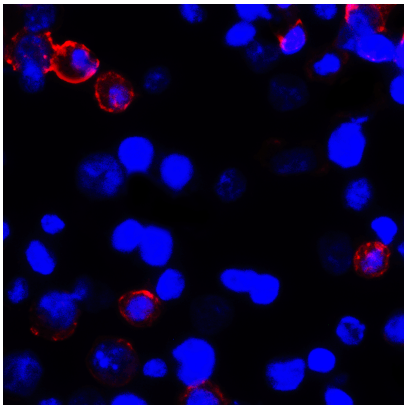
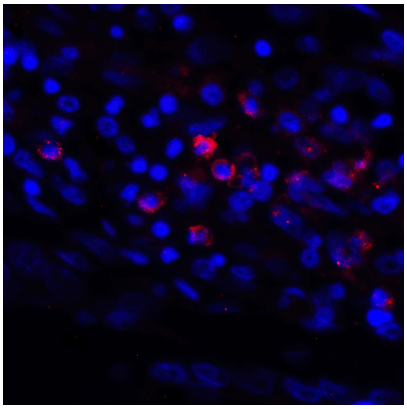
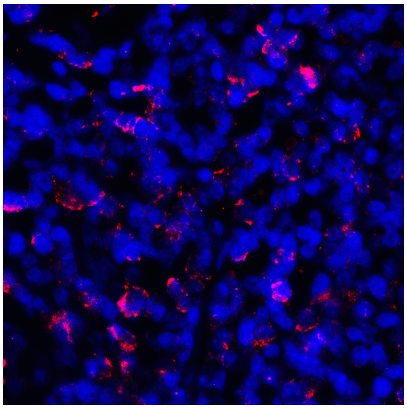


Immunofluorescence Validation of PD-L1 in Transfected 293 Cells.Immunofluorescent analysis of 4% paraformaldehyde-fixed PD-L1 transfected 293 cells labeling PD-L1 with orb1239770 at 2 µg/mL, followed by goat anti-mouse IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunofluorescence Validation of PD-L1 in Human Stomach Carcinoma Tissue. Immunofluorescent analysis of 4% paraformaldehyde-fixed human stomach carcinoma tissue labeling PD-L1 with orb1239770 at 2 µg/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 orb1239770 at 2 µg/mL, followed by goat anti-mouse IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

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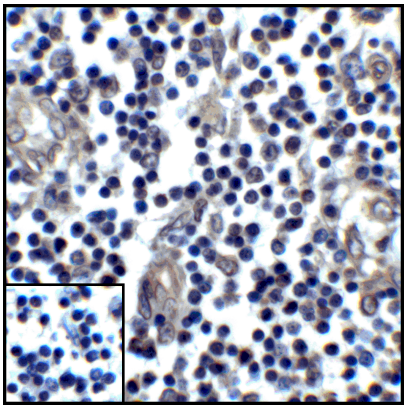
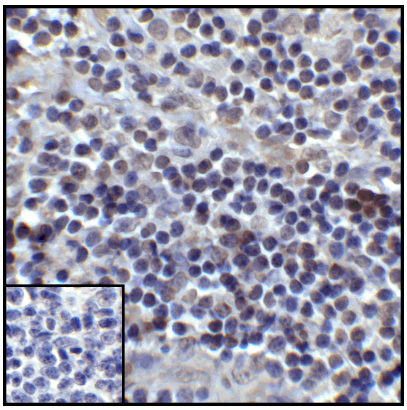
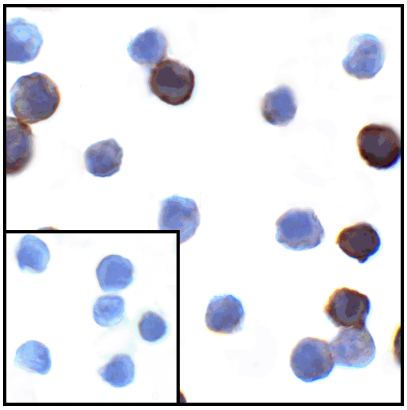


Immunohistochemistry Validation of PD-L1 in Human Stomach Carcinoma Tissue.Immunohistochemical analysis of paraffin-embedded human stomach carcinoma tissue using anti-PD-L1 antibody (orb1239770) at 5 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval 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 µg/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 (orb1239770) at 5 µg/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 Hematoxylinl. Lower left: Use mouse IgG antibody at 1 µg/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 (orb1239770) at 1 µg/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 µg/mL as control.

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