BOSTER
antibody and ELISA experts

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Anti-PD-L2 PDCD1LG2 Antibody

Catalog Number: A03295

About PDCD1LG2

Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by co gnate peptides bound to MHC molecules on antigen-presenting cells (APC). T-cell activation is generally self-limited as activated T cells express receptors such as PD-1 (also known as PDCD-1) that mediate inhibitory signals from the APC. PD-1 can bind two different but related ligands, PD-L1 and PD-L2, both of which are thought act as a negative regulator of T cell activation. However, it has been suggested that PD-L2 can act to stimulate an immunogenic response through and alternative receptor from PD-1.

Overview

Product Name	Anti-PD-L2 PDCD1LG2 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-PD-L2 PDCD1LG2 Antibody (Catalog # A03295). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	PD-L2 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	PD-L2 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	Rabbit
Uniprot ID	Q9BQ51

Technical Details

Immunogen	Anti-PD-L2 antibody was raised against a peptide corresponding to 16 amino acids near the center of human PD-L2. The immunogen is located within amino acids 140-190 of PD-L2.
Predicted Reactive Species	Rat
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	PD-L2 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 0.5-4 ug/mL; IHC: 2.5 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human and mouse samples; Immunohistochemistry in mouse

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

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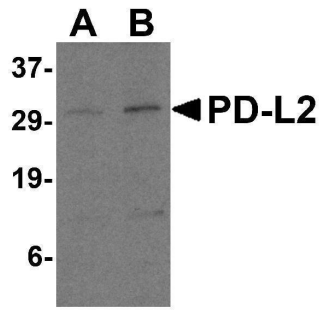
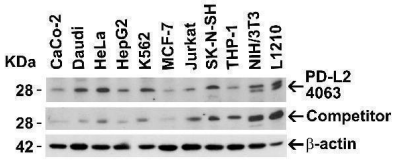
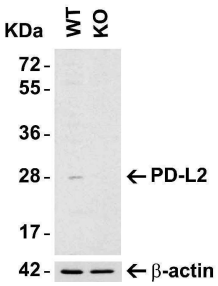
Anti-PD-L2 PDCD1LG2 Antibody (A03295) Images



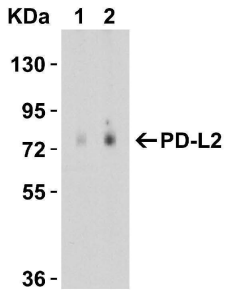
Western Blot Validation in Human Raji Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: PD-L2 A03295 (A: 0.5 ug/mL and B: 1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Independent Antibody Validation (IAV) via Protein Expression Profile in Human and Mouse Cell Lines Loading: 15 ug of lysates per lane. Antibodies: PD-L2, A03295 (4 ug/mL), competitor antibody (4 ug/mL), and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



KO Validation in HeLa Cells Loading: 15 ug of HeLa WT cell lysates or PD-L2 KO cell lysates. Antibodies: PD-L2, A03295 (4 ug/mL) and beta-actin 3779 (1 ug/mL), 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



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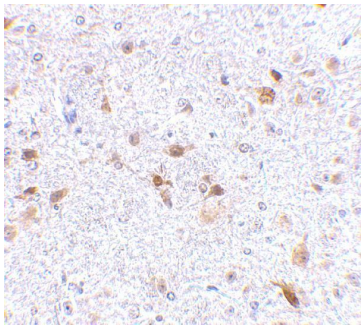

Immunohistochemistry Validation of PD-L2 in Mouse Brain Tissue Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PD-L2 antibody (A03295) at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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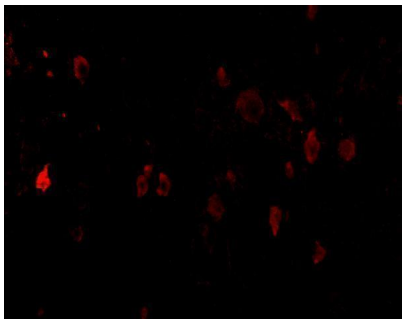
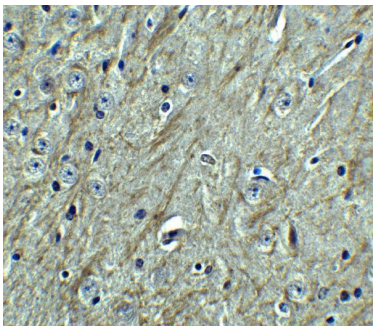
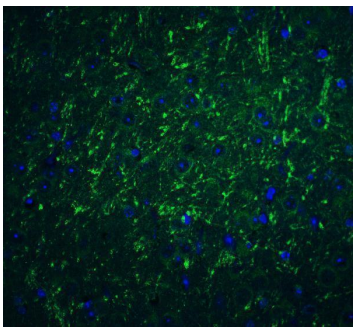


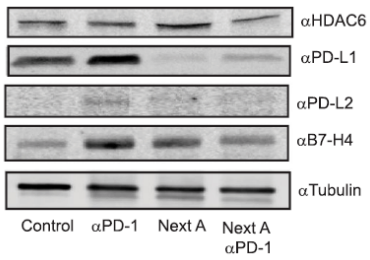
Immunofluorescence Validation of PD-L2 in Mouse Brain Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain cells labeling PD-L2 with A03295 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).



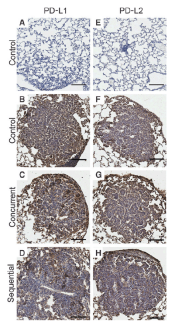
Immunohistochemistry Validation of PD-L2 in Mouse Brain Tissue Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-PD-L2 antibody (A03295) at 2.5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4˚C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of PD-L2 in Mouse Brain Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain tissue labeling PD-L2 with A03295 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Regulated Expression Validation of PD-L2 in Mice with Melanoma Tumor (Knox et al., 2019) Immunoblot analysis of PD-L2 expression with anti-PD-L2 (A03295) antibodies. PD-L2 expression was up-regulated by anti-PD1 antibody treatment whereas it was reduced by Next A alone or combination treatment (anti-PD1 antibody + NextA).



Immunohistochemistry Validation of PD-L2 in Lung Tumor of Mice (Kao et al., 2015) Protein analysis for PD-L2 (E-H) by immunohistochemistry with anti-PD-L2 antibodies in mice lung tumors. hMUC1.Tg mice were induced with lung adenoma and then treated with concurrent or sequential cisplatin/radiotherapy. PD-L2 expression level at week 41 after treatment was similar in control and treatment groups.

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Anti-PD-L2 PDCD1LG2 Antibody

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