BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-CD80 Antibody

Catalog Number: A00196

About CD80

CD80, also known as B7-1, is a type I membrane protein that is a member of the immunoglobulin superfamily. Like the related protein CD86, this protein is expressed by antigen-presenting cells, and is the ligand for two proteins at the cell surface of T cells, CD28 and the cytotoxic T-lymphocyte-associated protein 4 (CTLA-4). Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell and induces T-cell proliferation and cytokine production. CTLA-4 binding negatively regulates T-cell activation and diminishes the immune response (1). Blocking the CTLA-4-CD80/CD86 interaction has been shown to enhance T-cell functions in acute lymphoblastomic leukemia (ALL), suggesting that this pathway may be an attractive target for future cancer immunotherapy (2).

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Overview

Product Name	Anti-CD80 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD80 Antibody (Catalog # A00196). Tested in ELISA, WB, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, WB
Clonality	Polyclonal
Formulation	CD80 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	CD80 antibody can be stored at 4°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	P33681

Technical Details

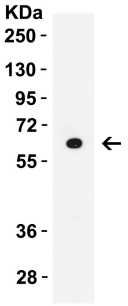
Immunogen	CD80 antibody was raised against a peptide corresponding to 17 amino acids near the amino terminus of human CD80. The immunogen is located within amino acids 60 - 110 of CD80.
Predicted Reactive Species	Rabbit

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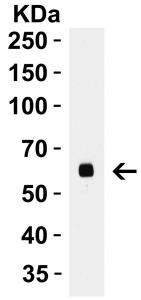
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CD80 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1-4 ug/mL; IHC-P/IF: 5-20 ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunofluorescence in the human, mouse and rat samples. All other applications and species not yet tested.

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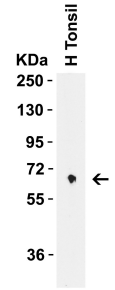
Anti-CD80 Antibody (A00196) Images



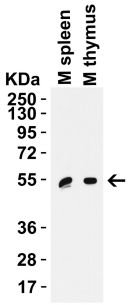
WB Validation in Human Raji Cells Loading: 15 ug of lysate Antibodies: CD80, A00196, 2 u g/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



WB Validation in Human Thymus Loading: 15 ug of lysate Antibodies: CD80, A00196, 2 u g/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000



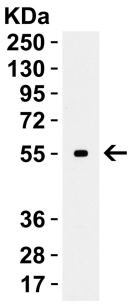
WB Validation in Human Tonsil Loading: 15 ug of lysate Antibodies: CD80, A00196, 2 ug/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

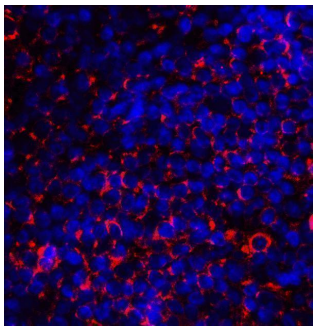


WB Validation in Mouse Tissues Loading: 15 ug of lysate Antibodies: CD80, A00196, 2 ug/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

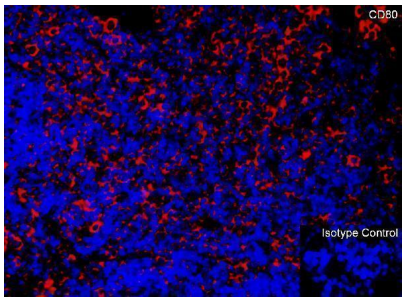
WB Validation in Rat Thymus Loading: 15 ug of lysate Antibodies: CD80, A00196, 2 ug/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

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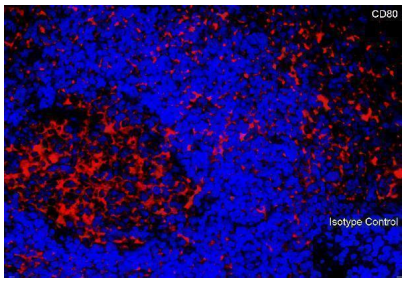




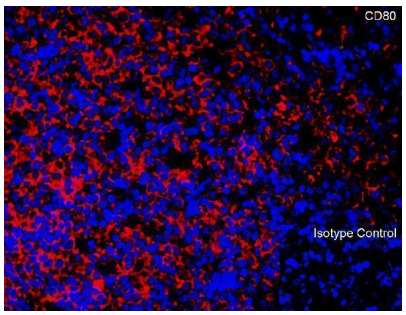
Immunofluorescence Validation of CD80 in Human Tonsil
Immunofluorescent analysis of 4% paraformaldehyde-fixed human tonsil tissue labeling CD80 with A00196 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunofluorescence Validation of CD80 in Mouse Spleen
Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse spleen tissue labeling CD80 with A00196 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunofluorescence Validation of CD80 in Human Tonsil
Immunofluorescent analysis of 4% paraformaldehyde-fixed human tonsil tissue labeling CD80 with A00196 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunofluorescence Validation of CD80 in Rat Spleen
Immunofluorescent analysis of 4% paraformaldehyde-fixed rat spleen tissue labeling CD80 with A00196 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).

1 Publications Citing This Product

1. PubMed ID: 33537094, Chen X,Gao A,Zhang F,Yang Z,Wang S,Fang Y,Li J,Wang J,Shi W,Wang L, Zheng Y,Sun Y.ILT4 inhibition prevents TAM- and dysfunctional T cell-mediated immunosuppression and enhances the efficacy of anti-PD-L1 therapy in NSCLC with EGFR

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Anti-CD80 Antibody

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