

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 lymphoblastic leukemia (ALL), suggesting that this pathway may be an attractive target for future cancer immunotherapy (2).

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 0.02% sodium azide.
Storage Instructions	CD80 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	P33681

Technical Details

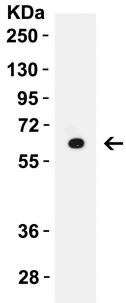
Immunogen	CD80 antibody was raised against a peptide corresponding to 17 amino acids near the amino terminus of human CD80. The immunogen is located within amino acids 60 - 110 of CD80.
Predicted Reactive Species	Rabbit
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CD80 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

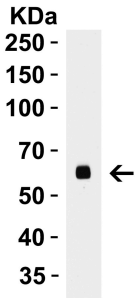
WB: 1-4 ug/mL; IHC-P/IF: 5-20 ug/mL.

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.

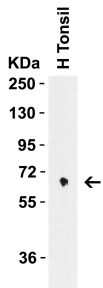
Anti-CD80 Antibody (A00196) Images



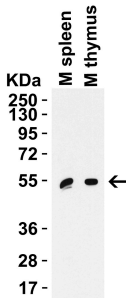
WB Validation in Human Raji Cells Loading: 15 ug of lysate
Antibodies: CD80, A00196, 2 u g/mL , 1 h incubation at RT in
5% NFDm/TBST. Secondary: Goat Anti-Rabbit IgG HRP
conjugate at 1:10000 dilution.



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

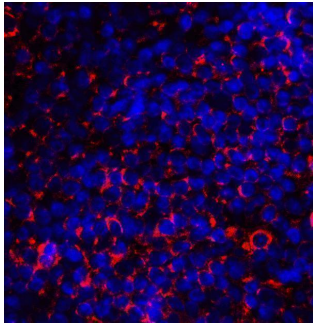
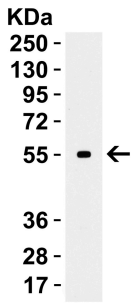


WB Validation in Human Tonsil Loading: 15 ug of lysate
Antibodies: CD80, A00196, 2 ug/mL , 1 h incubation at RT in
5% NFDm/TBST. Secondary: Goat Anti-Rabbit IgG HRP
conjugate at 1:10000 dilution.

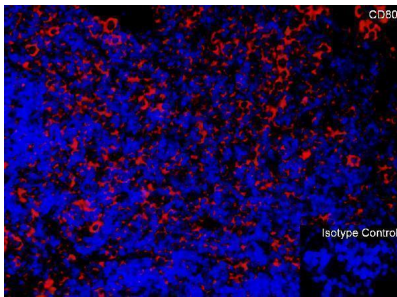


WB Validation in Mouse Tissues Loading: 15 ug of lysate
Antibodies: CD80, A00196, 2 ug/mL , 1 h incubation at RT in
5% NFDm/TBST. Secondary: Goat Anti-Rabbit IgG HRP
conjugate at 1:10000 dilution.

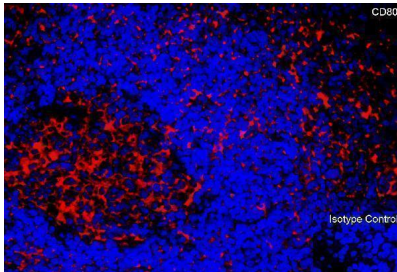
WB Validation in Rat Thymus Loading: 15 ug of lysate
Antibodies: CD80, A00196, 2 ug/mL , 1 h incubation at RT in
5% NFDm/TBST. Secondary: Goat Anti-Rabbit IgG HRP
conjugate at 1:10000 dilution.



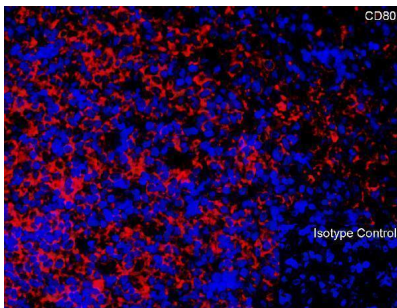
Immunofluorescence Validation of CD80 in Human Tonsil
Immunofluorescent analysis of 4% paraformaldehyde-fixed human tonsil tissue labeling CD80 with A00196 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



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

and dysfunctional T cell-mediated immunosuppression and enhances the efficacy of anti-PD-L1 therapy in NSCLC with EGFR activation. Theranostics.

Visit bosterbio.com/anti-cd80-antibody-a00196-boster.html to see all 1 publications.

Submit a product review to Biocompare.com

Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Anti-CD80 Antibody

For Research Use Only. Not for use in diagnostic procedures.