

Anti-CD86 Antibody

Catalog Number: A00220

About CD86

CD86, also known as B7-2, is a type I membrane protein that is a member of the immunoglobulin superfamily. Like the related protein CD80, 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

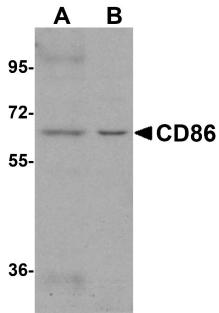
Product Name	Anti-CD86 Antibody
Reactive Species	Human
Description	Boster Bio Anti-CD86 Antibody (Catalog # A00220). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	CD86 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	CD86 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	P42082

Technical Details

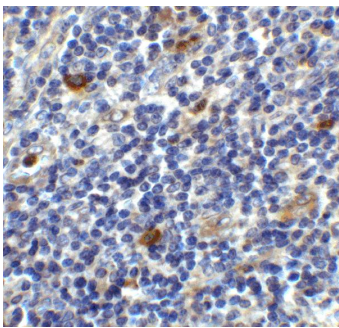
Immunogen	CD86 antibody was raised against a peptide corresponding to 17 amino acids near the center of human CD86. The immunogen is located within amino acids 160 - 210 of CD86.
Predicted Reactive Species	Mouse, Rabbit
Cross Reactivity	At least five isoforms of CD86 are known to exist; this antibody will detect all five isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL

Purification	CD86 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	CD86 antibody can be used for Western blot at 1 - 2 ug/mL. Antibody can also be used for Immunohistochemistry at 2 ug/mL. For Immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

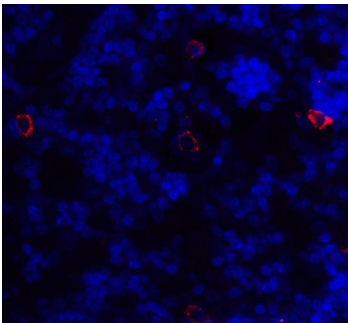
Anti-CD86 Antibody (A00220) Images



Western blot analysis of CD86 in (A) Daudi and (B) Raji cell lysate with CD86 antibody at 1 ug/mL.



Immunohistochemistry of CD86 in human lymph node tissue with CD86 antibody at 2 ug/ml.



Immunofluorescence of CD86 in human lymph node tissue with CD86 antibody at 20 ug/ml.

Red: CD86 Antibody (A00220)
Blue: DAPI staining

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