

Anti-CTLA4 Monoclonal Antibody [1E6]

Catalog Number: M00020-1

About CTLA4

The cytotoxic T-lymphocyte-associated protein 4 (CTLA-4), also known as CD152, is a member of the immunoglobulin superfamily that is expressed by activated T cells and transmits an inhibitory signal to T cells (1,2). Both it and the homologous T-cell co-stimulatory protein CD28 bind to CD80 (B7-H1) and CD86 (B7-H2) on antigen-presenting cells (APCs) (3). Mutations in the CTLA-4 gene have been implicated in multiple autoimmune diseases (4). CTLA-4 also functions as an immune checkpoint protein, and anti-CTLA-4 antibodies have been successfully used in the treatment of cancer (5).

Overview

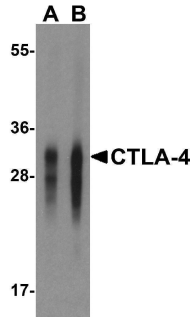
Product Name	Anti-CTLA4 Monoclonal Antibody [1E6]
Reactive Species	Human
Description	Boster Bio Anti-CTLA4 Monoclonal Antibody [1E6] (Catalog # M00020-1). Tested in ELISA, WB, IHC-P, ICC, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, ICC, WB
Clonality	Monoclonal Clone: 1E6
Formulation	CTLA-4 Antibody is supplied in PBS containing 0.02% sodium azide and 50% glycerol.
Storage Instructions	CTLA-4 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	Mouse
Uniprot ID	P16410

Technical Details

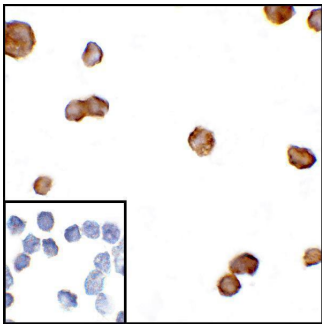
Immunogen	CTLA-4 antibody was raised against the extracellular domain of human CTLA-4.
Predicted Reactive Species	Human
Isotype	IgG1
Form	Liquid
Concentration	1 mg/mL
Purification	CTLA-4 Antibody is supplied as protein A purified IgG1.
Suggested Dilutions	CTLA-4 antibody can be used for detection of CTLA-4 by Western blot at 0.125 - 0.25 ug/mL. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunocytochemistry 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.

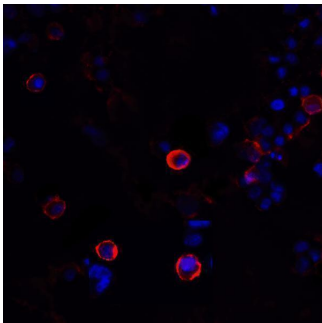
Anti-CTLA4 Monoclonal Antibody [1E6] (M00020-1) Images



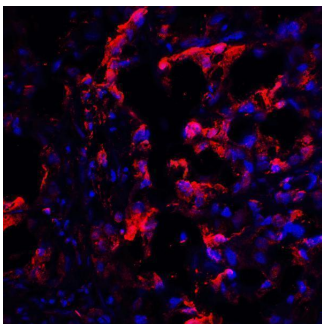
Western blot analysis of CTLA-4 in overexpressing HEK293 cells CTLA-4 antibody at 0.125 and 0.25 ug/mL.



Immunocytochemistry of CTLA-4 in transfected HEK293 cells with CTLA-4 antibody at 5 ug/mL. Lower left: Immunocytochemistry in transfected HEK293 cells with control mouse IgG antibody at 5 ug/mL.

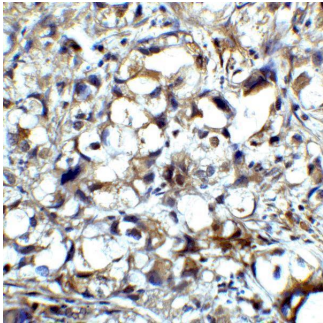
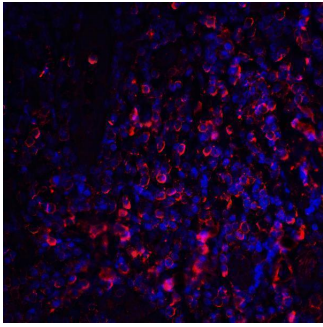


Immunofluorescence of CTLA-4 in transfected HEK293 cells with CTLA-4 antibody at 20 ug/mL. Red: CTLA4 Antibody [1E6] (M00020-1) Blue: DAPI staining

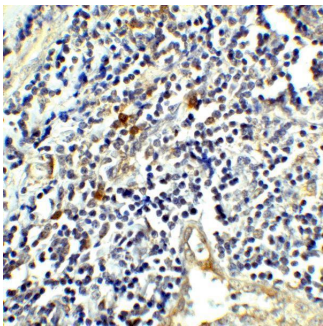


Immunofluorescence of CTLA-4 in human lymph node tissue with CTLA-4 antibody at 20 ug/mL. Red: CTLA4 Antibody [1E6] (M00020-1) Blue: DAPI staining

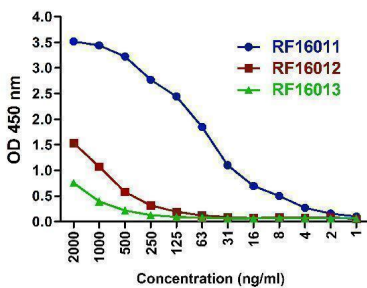
Immunofluorescence of CTLA-4 in human tonsil tissue with CTLA-4 antibody at 20 ug/mL. Red: CTLA4 Antibody [1E6] (M00020-1) Blue: DAPI staining



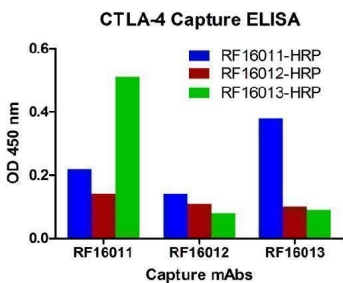
Immunohistochemistry of CTLA-4 in human lymph node tissue with CTLA-4 antibody at 5 ug/mL.



Immunohistochemistry of CTLA-4 in human tonsil tissue with CTLA-4 antibody at 5 ug/mL.



Titration curve analysis of CTLA-4 mAbs to detect recombinant CTLA-4 in ELISA with M00020-1, RF16012, and RF16013 antibodies at decreasing concentrations.



A sandwich ELISA was performed using the anti-CTLA-4 mAbs M00020-1, RF16012, RF16013, as the capture antibodies for the CTLA-4 extracellular domain antigen with HRP-labeled Risk-Free anti-CTLA-4 mAbs as the detection antibodies.

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