

Anti-CD86 (Dendritic Cells Maturation Marker) Monoclonal Antibody

Catalog Number: M00220

About CD86

Recognizes a protein of 70kDa, which is identified as CD86 (HLDA V; WS Code BP BP072. HLDA V; WS Code A A109. HLDA VI; WS Code BP 95. HLDA VI; WS Code B CD86.9). CD86 is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is expressed at high levels on resting peripheral monocytes and dendritic cells and at very low density on resting B and T lymphocytes. CD86 expression is rapidly upregulated by B cell specific stimuli with peak expression at 18 to 42 hours after stimulation. CD86, along with CD80/B71, is an important accessory molecule in T cell co-stimulation via its interaction with CD28 and CD152/CTLA4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response. It is also found on malignant Hodgkin and Reed Sternberg (HRS) cells in Hodgkin's disease.

Overview

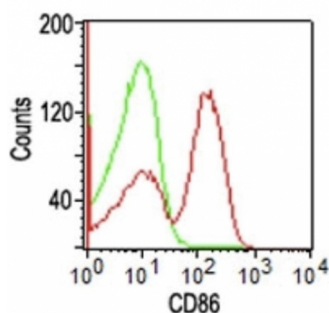
Product Name	Anti-CD86 (Dendritic Cells Maturation Marker) Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CD86 (Dendritic Cells Maturation Marker) Monoclonal Antibody (Catalog # M00220). Tested in Functional Assay, Flow Cytometry, IF, IHC applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	Flow Cytometry, IF, IHC, Functional Assay
Clonality	Monoclonal Clone: BU63
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P42081

Technical Details

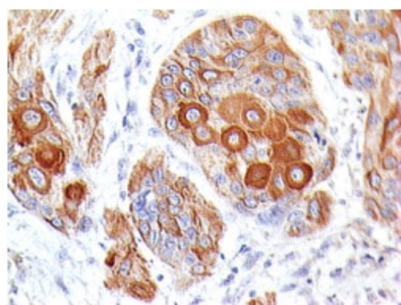
Immunogen	ARH-77 (B-lymphoblastoid cell line)
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Isotype	IgG1, kappa
Form	Liquid

Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Functional Studies (Order Ab without Azide)</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris buffer with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.</p>

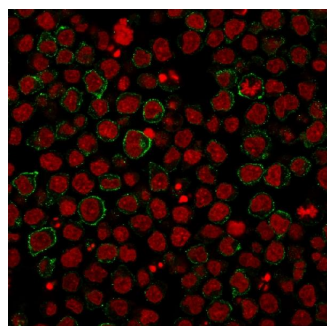
Anti-CD86 (Dendritic Cells Maturation Marker) Monoclonal Antibody (M00220) Images



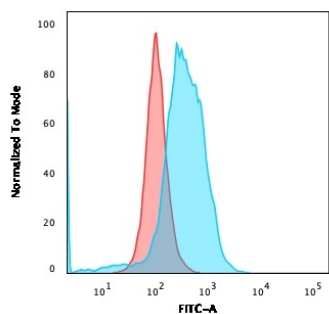
Flow Cytometric Analysis of human PBMCs using Anti-CD86 Mouse Monoclonal Antibody (BU63); Goat anti-Mouse IgG-CF488 (red); Isotype Control (green).



Formalin-fixed, paraffin-embedded human Esophageal Tumor stained with Anti-CD86 Mouse Monoclonal Antibody (BU63).



Immunofluorescence staining of PFA-fixed Ramos cells using Anti-CD86 Mouse Monoclonal Antibody (BU63) followed by goat anti-Mouse IgG conjugated to CF488 (green). Nuclei are stained with Reddot.



Flow Cytometric analysis of PFA-fixed Ramos cells. Anti-CD86 Mouse Monoclonal Antibody (BU63) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

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