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Datasheet

CD86 monoclonal antibody, clone BU63 (PerCP)

Catalog Number: MAB5112

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native CD86.

Clone Name: BU63

Immunogen: Native purified CD86 from B-lymphoblastoid cell line ARH 77.

Host: Mouse

Theoretical MW (kDa): 70

Reactivity: Human

Applications: Flow Cyt
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody reacts with CD86 (B7-2), a 70 KDa type I transmembrane glycoprotein of immunoglobulin supergene family, expressed on professional antigen-presenting cells, such as dendritic cells, macrophages or activated B lymphocytes.

Form: Liquid

Conjugation: PerCP

Isotype: IgG1

Recommend Usage: Flow Cytometry (10 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.
Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 942

Gene Symbol: CD86

Gene Alias: B7-2, B70, CD28LG2, LAB72, MGC34413

Gene Summary: This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in two transcript variants encoding different isoforms. Additional transcript variants have been described, but their full-length sequences have not been determined. [provided by RefSeq]

References:

1. Insertion of host-derived costimulatory molecules CD80 (B7.1) and CD86 (B7.2) into human immunodeficiency virus type 1 affects the virus life cycle. Giguere JF, Bounou S, Paquette JS, Madrenas J, Tremblay MJ. J Virol. 2004 Jun;78(12):6222-32.
2. Antigen-presenting T cells induce the development of cytotoxic CD4+ T cells. I. Involvement of the CD80-CD28 adhesion molecules. Mauri D, Wyss-Coray T, Gallati H, Pichler WJ. J Immunol. 1995 Jul 1;155(1):118-27.
3. B70/B7-2 is identical to CD86 and is the major functional ligand for CD28 expressed on human dendritic cells. Caux C, Vanbervliet B, Massacrier C, Azuma M, Okumura K, Lanier LL, Banchereau J. J Exp Med. 1994 Nov 1;180(5):1841-7.