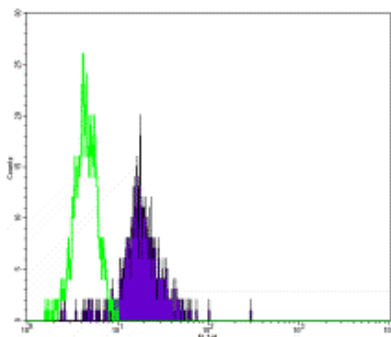


Anti-Human CD86 (B7-2) Purified

Catalog Number: 14-0869

Also Known As: B72, B70

RUO: For Research Use Only



Normal human peripheral blood stained with Anti-Human CD86 (B7-2) Purified followed by Anti-Mouse IgG FITC (cat. \{11-4011\}). Appropriate isotype controls were used (open histogram). Cells in the monocyte gate were analyzed.

Product Information

Contents: Anti-Human CD86 (B7-2) Purified

REF **Catalog Number:** 14-0869

Clone: IT2.2

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG2b, κ

HLDA Workshop: VI B-CD86.8

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

Description

The IT2.2 monoclonal antibody reacts with human CD86, an ~80 kDa surface receptor also known as B7-2. CD86 and CD80 are members of the B7 family of costimulatory molecules. CD86 is expressed at low levels on B cells, macrophages, and dendritic cells and is upregulated on B cells through a variety of surface stimuli including the BCR complex, CD40 and some cytokine receptors. In addition to CD80 (B7-1), CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152 (CTLA-4). The interaction of CD86 with its ligands plays a critical role in T-B crosstalk, T cell costimulation, autoantibody production and Th2-mediated Ig production. The kinetics of upregulation of CD86 upon stimulation supports its major contribution during the primary phase of an immune response.

Applications Reported

The IT2.2 antibody has been reported for use in flow cytometric analysis. IT2.2 has also been reported in blocking of CD86 in functional studies. (Please use Functional Grade purified IT2.2, cat. 16-0869, in functional assays.)

Applications Tested

The IT2.2 antibody has been tested by flow cytometric analysis of human peripheral leukocytes. This can be used at less than or equal to 0.25 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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Kishimoto T, von dem Borne AEG, et al. eds. *Leucocyte Typing VI: White Cell Differentiation Antigens.* 1998. Garland Publishing Inc. London.

Jeannin P, Delneste Y, Lecoanet-Henchoz S, Gauchat JF, Ellis J, Bonnefoy JY. CD86 (B7-2) on human B cells. A functional role in proliferation and selective differentiation into IgE- and IgG4-producing cells. *J Biol Chem.* 1997 Jun 20;272(25):15613-9. (IT2.2, FA, PubMed)

Azuma M, Ito D, Yagita H, Okumura K, Phillips JH, Lanier LL, Somoza C. B70 antigen is a second ligand for CTLA-4 and CD28. *Nature.*

1993 Nov 4;366(6450):76-9. (IT2.2, FC, IP, PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

14-4732 Mouse IgG2b K Isotype Control Purified

17-4317 Streptavidin APC

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