10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PE Anti-Human CD86 (B7-2) (IT2.2) Antibody

Catalog # ATB10194

Specification

PE Anti-Human CD86 (B7-2) (IT2.2) Antibody - Product Information

Application	**FC**
Isotype	**Mouse IgG2b, kappa**
Reactivity	**Human**
Formulation	**10 mM NaH_2PO_4, 150 mM NaCl, 0.09% NaN_3, 0.1% gelatin, pH7.2**
Host	**Mouse**

PE Anti-Human CD86 (B7-2) (IT2.2) Antibody - Additional Information

Gene ID	**942**
Gene Name	**CD86**

Alternative Name(s)
B72, B70

Format
PE

Preparation
This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Application Notes
This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10e5 to 1x10e8 cells.

Storage Conditions
2-8°C protected from light

PE Anti-Human CD86 (B7-2) (IT2.2) Antibody - Protocols

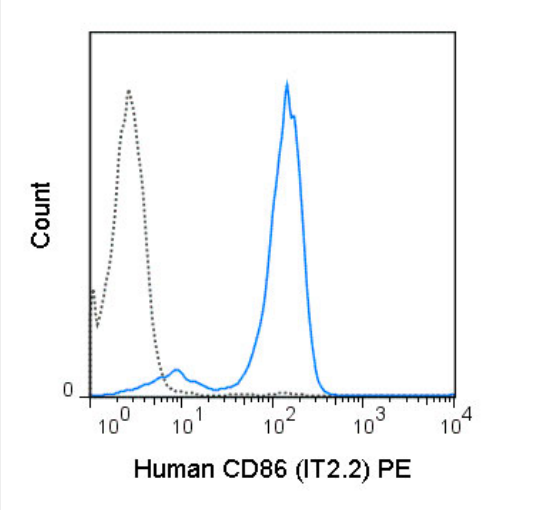
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation

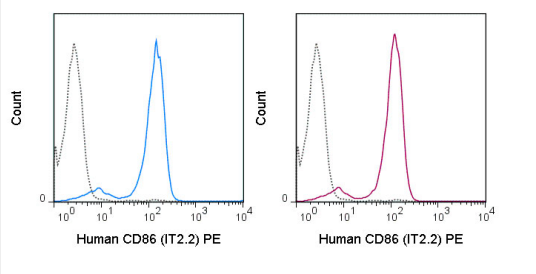
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Flow Cytomety
- Cell Culture

PE Anti-Human CD86 (B7-2) (IT2.2) Antibody - Images



Human peripheral blood monocytes were stained with 5 uL (0.5 ug) PE Anti-Human CD86 (ATB10194) (solid line) or 0.5 ug PE Mouse IgG2b isotype control (dashed line).



Human peripheral blood monocytes were stained with 5 uL (0.5 ug) PE Anti-Human CD86 (IT2.2) manufactured by Tonbo Biosciences (left panel) or eBioscience (right panel).

PE Anti-Human CD86 (B7-2) (IT2.2) Antibody - Background

The IT2.2 antibody reacts with human CD86, also known as B7-2, an 80 kDa cell surface protein which is a ligand for CD28, a co-stimulatory receptor for the T cell receptor (TCR). CD28 can also bind a second B7 ligand known as CD80 (B7-1). Both CD80 and CD86 are expressed on activated B cells and antigen-presenting cells. These ligands trigger CD28 signaling in concert with TCR activation to drive T cell proliferation, induce high-level expression of IL-2, impart resistance to apoptosis, and enhance T cell cytotoxicity. The interaction / co-stimulatory signaling between the B7 ligands and CD28 provides crucial communication between T cells and B cells or APCs to coordinate the adaptive immune response.The IT2.2 antibody may be used as a marker for CD86 expression on B cells, macrophages, and dendritic cells. It is reported to be cross-reactive with Rhesus, Cynomolgus and Common marmoset CD86.