

APC Anti-Human CD152 (CTLA-4) (BNI3) Antibody
Catalog # ATB10041

Specification

APC Anti-Human CD152 (CTLA-4) (BNI3) Antibody - Product Information

Application	FC
Isotype	Mouse IgG2a, kappa
Concentration	5 uL (0.125 ug)/test
Reactivity	Human
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% Na ₃ N, 0.1% gelatin, pH7.2
Host	Mouse

APC Anti-Human CD152 (CTLA-4) (BNI3) Antibody - Additional Information

Gene ID	1493
Gene Name	CTLA4
Alternative Name(s)	
Cytotoxic T-Lymphocyte Antigen 4, CTLA4	

Format
APC

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 1x10⁵ to 1x10⁸ cells.

Storage Conditions

2-8°C protected from light

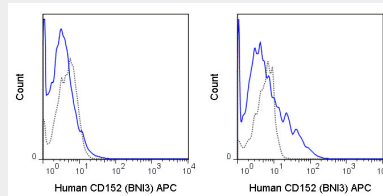
APC Anti-Human CD152 (CTLA-4) (BNI3) Antibody - Protocols

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

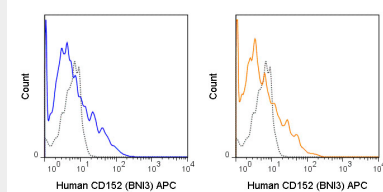
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

APC Anti-Human CD152 (CTLA-4) (BNI3) Antibody - Images



Human peripheral blood lymphocytes were stained with PE Anti-Human CD4 (50-0048), FITC Anti-Human CD45RO (35-0457) followed by intracellular staining with 5 uL (0.125 ug) APC Anti-Human CD152 (ATB10041) (solid line) or 0.125 ug APC Mouse IgG2a isotype cont



Human peripheral blood lymphocytes were stained with PE Anti-Human CD4, FITC Anti-Human CD45RO, followed by intracellular staining with the recommended volume of APC Anti-Human CD152 (BNI3) manufactured by Tonbo Biosciences (left panel) or BD Biosciences

APC Anti-Human CD152 (CTLA-4) (BNI3) Antibody - Background

The BNI3 antibody is specific for human CD152, commonly known as CTLA-4, a 33-37 kDa protein expressed as a homodimer on the surface of activated T and B cells, and on thymocytes. CTLA-4 is structurally similar, yet functionally disparate, to the T cell co-stimulatory molecule CD28. Both CTLA-4 and CD28 interact with the co-stimulatory molecules CD80 (B7-1) and CD86 (B7-2) on antigen-presenting cells, with CTLA-4 displaying a higher avidity than CD28. While CD28 typically delivers a potent co-stimulatory signal in support of T cell activation, CTLA-4 appears to act as a negative regulator of T cell activation and may contribute to the suppressor function of Treg cells. CTLA-4 proteins may be initially sequestered within Golgi vesicles, from which they can be transferred to and from the cell surface, a mechanism by which Treg cells can selectively impart suppressive functions. The BNI3 antibody may be used for flow cytometric analysis of intracellular or surface CTLA-4 expression, and is also widely used for neutralization of CTLA-4 when expressed at the cell surface. The BNI3 antibody is reported to be cross-reactive with Baboon, Cynomolgus and Rhesus CTLA-4.