

PE-Cy7 Anti-Human CD28 (CD28.2) Antibody
Catalog # ATB10245**Specification****PE-Cy7 Anti-Human CD28 (CD28.2) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 uL (0.25 ug)/test
Reactivity	Human
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2
Host	Mouse

PE-Cy7 Anti-Human CD28 (CD28.2) Antibody - Additional Information

Gene ID	940
Gene Name	CD28
Alternative Name(s)	
T44, Tp44	

Format
PE-Cy7**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

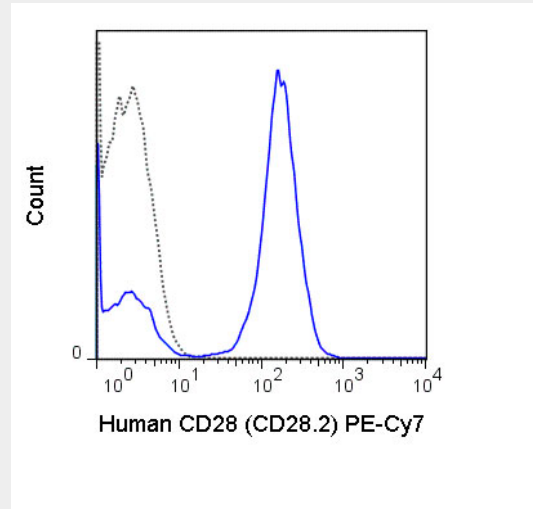
PE-Cy7 Anti-Human CD28 (CD28.2) Antibody - Protocols

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

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

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

PE-Cy7 Anti-Human CD28 (CD28.2) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 μ L (0.25 μ g) PE-Cy7 Anti-Human CD28 (ATB10245) (solid line) or 0.25 μ g PE-Cy7 Mouse IgG1 isotype control.

PE-Cy7 Anti-Human CD28 (CD28.2) Antibody - Background

The CD28.2 antibody reacts with human CD28, a 44 kDa type I surface glycoprotein which acts as a co-stimulatory receptor in support of the T cell receptor (TCR). CD28 exists as a homodimer with specificity for two known ligands, known as B7-1 (CD80) and B7-2 (CD86), which 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. Other members of the CD28 family of receptors include CTLA-4 (CD152), PD-1 (CD279), ICOS and BTLA. The CD28.2 antibody may be used as a phenotypic marker for human CD28, expressed on all CD4⁺ T cells and CD8⁺ T cells, and is widely used as a reagent for activation of the CD28 receptor in vitro and in vivo. This antibody is also reported to be cross-reactive with several non-human species, including Baboon, Chimpanzee, Cynomolgus, and Rhesus.