

**In Vivo Ready™ Anti-Human CD28 (CD28.2) Antibody**  
Catalog # ATB10146**Specification****In Vivo Ready™ Anti-Human CD28 (CD28.2) Antibody - Product Information**

Application	IHC-F, FC, IP, FA
Isotype	Mouse IgG1, kappa
Concentration	2 mg/mL
Reactivity	Human
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, pH7.2
Host	Mouse

**In Vivo Ready™ Anti-Human CD28 (CD28.2) Antibody - Additional Information**

Gene ID	940
Gene Name	CD28
<b>Alternative Name(s)</b>	
T44, Tp44	

**Format**

In Vivo Ready™

**Preparation**

This monoclonal antibody preparation was purified from tissue culture supernatant via affinity chromatography. For In Vivo Ready™ (IVR) products, each preparation is also evaluated for endotoxin levels using the LAL assay. It is recommended to store the product undiluted at 4°C. Do not freeze.

**Application Notes**

This purified format is guaranteed to be >90% pure as determined by SDS-PAGE analysis. Citations are provided as a convenience to you - please consult Materials and Methods sections for additional details about the use of any product in these publications.

**Endotoxin Level**

Less than or equal to 0.01 EU/ug, as determined by the LaL assay

**Storage Conditions**

2-8°C

**In Vivo Ready™ 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](#)

### **In Vivo Ready™ Anti-Human CD28 (CD28.2) Antibody - Images**

### **In Vivo Ready™ 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.