

## TECHNICAL DATA SHEET

**In Vivo Ready™ Anti-Human CD28 (CD28.6)**

Catalog Number: 40-0288

## PRODUCT INFORMATION

**Contents:** In Vivo Ready™ Anti-Human CD28 (CD28.6)**Isotype:** Mouse IgG2a, kappa**Concentration:** 2 mg/mL**Clone:** CD28.6**Reactivity:** Human**Use By:** 12 months from date of receipt**Storage Conditions:** 2-8°C**Endotoxin Level:** Less than or equal to 0.01 EU/ug, as determined by the LaL assay**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, pH7.2

## DESCRIPTION

The CD28.6 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. The CD28.6 antibody is reported to have neutralizing activity and is also useful for western blotting.

## PREPARATION &amp; STORAGE

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.

## REFERENCES

Yang JH, Zhang J, Cai QY, Zhang JH, Zhang J, Cai Q, Zhao DB, Wang J, Guo PE, Liu L, Han XH, Shen Q. 2005. *Rheumatology (Oxford)*. Oct;44(10):1245-1254. Zhang XG, Olive D, Devos J, Rebouissou C, Ghiotto-Ragueneau M, Ferlin M, Klein B. 1998. *Leukemia*. Apr;12(4):610-618. Kariv I, Truneh A, Sweet RW. 1996. *J Immunol*. Jul 1;157(1):29-38. Nunes J, Klasen S, Ragueneau M, Pavon C, Couez D, Mawas C, Bagnasco M, Olive D. 1993. *Int Immunol*. Mar;5(3):311-315.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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