

## Anti-CD28 [JJ316] Standard Size Ab00284-6.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Rat IgG1, [Fc Silent™](#), Kappa

**Clone Number:** JJ316

**Alternative Name(s) of Target:** TP44; T-cell-specific surface glycoprotein CD28

**UniProt Accession Number of Target Protein:** P31042

**Published Application(s):** CoStim, Superagonism, FC, IF, IHC

**Published Species Reactivity:** Rat

**Immunogen:** Made by immunizing BALB/c mice with rat CD28 cDNA-transfected A20/J cells.

**Specificity:** Recognises rat CD28 and can trigger T-cell proliferation in vitro and in vivo.

**Application Notes:** This antibody binds rat CD28 and can convey as a co-stimulatory signal. At 100-1000-fold higher concentration than required for co-stimulation JJ316 (unlike the clone JJ319 marketed by competitors (see Tacke et al. 1997)) can induce proliferation of all T-cell subsets without TCR engagement.

**Antibody First Published in:** Tacke et al. CD28-mediated induction of proliferation in resting T cells in vitro and in vivo without engagement of the T cell receptor: evidence for functionally distinct forms of CD28. Eur J Immunol [PMID:9022025](#)

**Note on publication:** Describes the in vivo and in vitro characterisation of JJ316.

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.