

## Anti-CD28 [JJ316] Standard Size Ab00284-8.4

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

This is a chimeric antibody, created to reduce immunogenicity during in vivo applications, that does not bind complement or Fc-receptors.

**Isotype and Format:** Rat IgG2b, 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.