

## Anti-CD80 [16C10] Standard Size Ab01688-3.3

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

**Isotype and Format:** Mouse IgG2b, [Fc Silent™](#), Lambda

**Clone Number:** 16C10

**Alternative Name(s) of Target:** B7.1; CD28L; CD28LG; B7-1; B7; BB1; B7/BB1; T-lymphocyte activation antigen CD80; Activation B7-1 antigen; CTLA-4 counter-receptor B7.1; CTLA4L; CTLA-4L

**UniProt Accession Number of Target Protein:** P33681

**Published Application(s):** therapeutic, Block, ELISA

**Published Species Reactivity:** Human

**Immunogen:** This antibody was generated by immunization of cynomolgus monkeys with human B7.1 antigen.

**Specificity:** This antibody binds human CD80 and inhibits the B7.1:CD28 pathway.

**Application Notes:** This antibody can be used for identification of human B7.1 antigen and is capable of inhibiting the binding of B7.1 to CD28, however it does not block the binding of B7.1 to CTLA-4. This antibody further inhibits the production of IL-2. Blocking of the primary activation signal between CD28 and B7.1 (CD80) with these antibodies while allowing the unimpaired or coincident interaction of CTLA-4 and B7.1 represents a combined antagonistic effect on positive co-stimulation with an agonistic effect on negative signaling. The binding of the antibody to soluble B7.1 was tested using ELISA. This antibody tested positive for binding to human C1q protein. This antibody is reported to cause keratinocyte hyperproliferation and decrease in psoriasis by inhibiting the B7:CD28 pathway. This antibody is further reported to be useful for the treatment of intestinal inflammation and rheumatoid arthritis.

**Antibody First Published in:** [PMID:](#)

**Note on publication:**

## 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.