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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CD28 [9.3] Standard Size Ab03228-23.0

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 9.3

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

UniProt Accession Number of Target Protein: P10747

Published Application(s): Blocking, IP, ELISA, IF

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with human T cells.

Specificity: The antibody is specific for human CD28. CD28 is one of the proteins expressed on T cells that provide co-stimulatory signals required for T cell activation and survival. T cell stimulation through CD28 in addition to the T-cell receptor (TCR) can provide a potent signal for the production of various interleukins.

Application Notes: The antibody was found to induce T cell activation and proliferation in collaboration with TPA. Further, T cell proliferation was associated with IL-2 receptor expression and IL-2 production. The antibody stained 60-80% of the isolated T cells by immunofluorescence. The antibody immunoprecipitated CD28 from Jurkat cells. (Hara et al., 1985; PMID: 3159820). Immunofluorescence was performed on T cells expressing CD28 using this antibody. The antibody was cytotoxic for 50-80% of peripheral T cells and for 20-50% of thymocytes but it was not cytotoxic for cultured B-cell lines, normal B cells, or monocytes. In immune precipitation assays, the antibody reacted with CD28 (Hansen et al., 1980). The antibody induces proliferative responses in human T cells in in vitro experiments (Hutloff et al. 1999; PMID: 9930702). The antibody detected CD28 by western blot analysis (Siefken et al,1998; PMID: 9712026). Humanize, chimeric and hybrid Fab versions of the antibody were constructed. The ability of the three Fabs to bind to CD28 was examined by ELISA; the three Fabs showed a binding activity, with an EC50 of 630, 20 and 30 nM respectively for the humanized, the chimeric, hybrid Fab version. Thus, the humanized Fab showed a moderate loss in avidity. The three Fab versions of the antibody were tested for blocking ligation of CD28-Ig to CHO cells expressing CD80 and the binding was quantified by flow cytometry. The chimeric Fab exhibited the best blocking activity followed by the hybrid and the humanized Fab, with EC50 values of 0.2, 0.4, and 1.2 µM, respectively. Lastly, three Fab versions showed biological activity as an immunosuppressant by inhibiting a MLR (Tan et al. 2002; PMID: 12097421).

Antibody First Published in: Hansen et al. Monoclonal antibodies identifying a novel T-Cell antigen and

la antigens of human lymphocytes Immunogenetics. 1980; 10:247. [PMID:](#)

Note on publication: The original paper describes the generation and characterization of the antibody.

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.