

Cluster of Differentiation 28 (CD28) Antibody (FITC)

Catalogue No.: abx200212

The CD28.2 monoclonal antibody specifically binds to CD28, a 44 kDa homodimeric transmembrane glycoprotein present on most mature T cells, thymocytes and plasma cells. CD28 is a costimulatory receptor that binds CD80 and CD86 as ligands and plays a very important role in T cell-B cell interactions. It has been suggested that CD28 initiates and regulates a separate and distinct signal transduction pathway from those stimulated by the TCR complex. Additionally, it has been reported that CD28 antibody clones vary in their ability to stimulate T cells to produce IL-2 and increase intracellular Ca²⁺ concentration. This finding suggests the existence of functionally distinct subregions on the CD28 molecule. CD28.2 has been demonstrated to bind to the same molecule as clone L293, another CD28 mAb, and has been reported to induce Ca²⁺ influx in Jurkat T cells.

Target: CD28

Reactivity: Human, Monkey

Host: Mouse

Clonality: Monoclonal

Tested Applications: FCM

Recommended dilutions: FCM: 20 µl/1 million cells. Optimal dilutions/concentrations should be determined by the end user.

Immunogen: Human CD28 Transfected Cell Line.

Purification: Affinity Chromatography

Form: Liquid

Isotype: IgG₁

Conjugation: FITC

Specificity: The monoclonal antibody is directed against the CD28 antigen, which is weakly expressed on human T cells in the resting period and strongly on human cytotoxic/suppressor T cells (molecular mass 44 kDa). The antibody also reacts with 30% of human thymocytes and adult cell leukaemia. It does not react with normal human B lymphocytes, monocytes, granulocytes, platelets, erythrocytes, common acute lymphoblastic leukaemia cells or acute myelocytic leukaemia cells.

Storage: Store in the dark at 2-8 °C.

Molecular Weight: 44 kDa

Swiss Prot: [P10747](#)

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GeneID: [940](#)

Buffer: The reagent is provided in aqueous buffered solution containing protein stabilizer, and $\leq 0.09\%$ sodium Azide

Note: This product is for research use only.