

## CD28 Monoclonal Antibody (CD28.2), Functional Grade, eBioscience™

### Product Details

|                     |                                             |
|---------------------|---------------------------------------------|
| Size                | 50 µg                                       |
| Species reactivity  | Human                                       |
| Published species   | Fruit fly, Human, Mouse                     |
| Host / Isotype      | Mouse / IgG1, kappa                         |
| Class               | Monoclonal                                  |
| Type                | Antibody                                    |
| Clone               | CD28.2                                      |
| Conjugate           | Functional Grade                            |
| Form                | Liquid                                      |
| Concentration       | 1 mg/mL                                     |
| Purification        | Affinity chromatography                     |
| Storage buffer      | PBS, pH 7.2                                 |
| Contains            | no preservative                             |
| Storage conditions  | 4°C                                         |
| Shipping conditions | Ambient (domestic); Wet ice (international) |
| RRID                | AB_468926                                   |

| Applications                  | Tested Dilution | Publications    |
|-------------------------------|-----------------|-----------------|
| Affinity Purification (AP)    | -               | 2 Publications  |
| ELISA (ELISA)                 | -               | 2 Publications  |
| Flow Cytometry (Flow)         | 1 µg/test       | 50 Publications |
| Functional Assay (Functional) | Assay-Dependent | 34 Publications |
| In vitro Assay (IV)           | -               | 6 Publications  |
| Miscellaneous Pubmed (Misc)   | -               | 9 Publications  |
| T-Cell Activation (TCA)       | -               | 4 Publications  |
| Western Blot (WB)             | -               | 4 Publications  |

### Product Specific Information

**Description:** The CD28.2 monoclonal antibody reacts with the human CD28 molecule, a 44 kDa homodimer expressed by thymocytes, mature T cells and plasma cells. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) and is a potent co-stimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells.

**Applications Reported:** The CD28.2 antibody has been reported for use in flow cytometric analysis. CD28.2 has also been reported in costimulation of T cells in in vitro functional assays.

**Applications Tested:** The CD28.2 antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Storage and handling:** Use in a sterile environment.

**Filtration:** 0.2 µm post-manufacturing filtered.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Endotoxin Level:** Less than 0.001 ng/µg antibody, as determined by LAL assay.

**Aggregation:** Less than 10%, as determined by HPLC.

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