

## CD28 Protein, Human/Cynomolgus (HEK293, mFc)

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| Cat. No.:         | HY-P78416                                                                                                          |
| Synonyms:         | CD28 antigen (Tp44); CD28 antigen; CD28 molecule; CD28; MGC138290; T-cell-specific surface glycoprotein CD28; Tp44 |
| Species:          | Cynomolgus                                                                                                         |
| Source:           | HEK293                                                                                                             |
| Accession:        | P10747 (N19-P152)                                                                                                  |
| Gene ID:          | 940                                                                                                                |
| Molecular Weight: | 65-68 kDa                                                                                                          |

### PROPERTIES

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| Biological Activity | Immobilized Human/Cynomolgus/Rhesus macaque CD28, mFc (IgG2a) Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD28 Antibody, hFc Tag with the EC <sub>50</sub> 14.5ng/ml determined by ELISA. |
| Appearance          | Lyophilized powder.                                                                                                                                                                                                   |
| Formulation         | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.                                                                                      |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.                                                                                                                                                                                   |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.                                                                                                                   |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.            |
| Shipping            | Room temperature in continental US; may vary elsewhere.                                                                                                                                                               |

### DESCRIPTION

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| Background | CD28 protein plays a pivotal role in T-cell activation, promoting cell proliferation, cytokine production, and T-cell survival. Upon ligation with TCR/CD3 and CD40L costimulation, CD28 enhances the production of IL4 and IL10 in T-cells, contributing to immune response modulation. Additionally, isoform 3 of CD28 facilitates CD40L-mediated activation of NF-kappa-B and kinases MAPK8 and PAK2 in T-cells. The protein forms homodimers through disulfide linkages and interacts with various molecules, including DUSP14, CD80/B7-1, CD86/B7-2/B70, and GRB2. Isoform 3 specifically interacts with CD40LG, highlighting its multifaceted role in mediating immune responses and cellular signaling pathways. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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