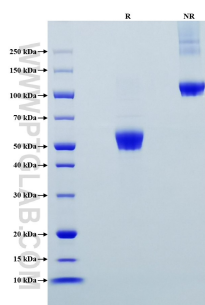


Recombinant Mouse CD28 protein (hFc Tag)

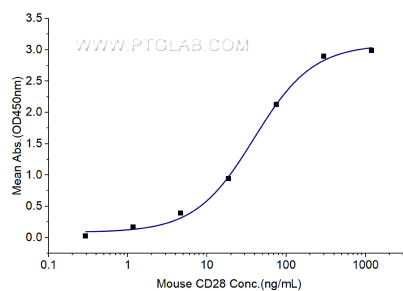
Catalog Number: Eg0805

Basic Information	Species: Mouse EC50: 23-91 ng/mL Purity: >95 %, SDS-PAGE Tag: hFc Tag
Technical Specifications	Purity: >95 %, SDS-PAGE Endotoxin Level: <0.1 EU/ µg protein, LAL method Source: HEK293-derived Mouse CD28 protein Asn20-Leu150 (Accession# P31041) with a Human IgG1 Fc tag at the C-terminus. GeneID: 12487 Accession: P31041 Predicted Molecular Mass: 41.5 kDa SDS-PAGE: 48-60 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Biological Activity	Immobilized Mouse CD86 (His tag) at 1 µg/mL (100 µL/well) can bind Mouse CD28 (hFc tag) with a linear range of 23-91 ng/mL.
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.
Background	CD28 (T-cell-specific surface glycoprotein CD28), also known as T44 and Tp44, is a 44 kD disulfide-linked homodimeric type I glycoprotein. It is a member of the immunoglobulin superfamily and is expressed on most T lineage cells, NK cell subsets, and plasma cells. CD28 may affect in vivo immune responses by functioning both as a cell adhesion molecule linking B and T lymphocytes and as the surface component of a novel signal transduction pathway. CD28 binds both CD80 and CD86 with a highly conserved motif MYPPY in the CDR3-like loop. CD28 is considered a major co-stimulatory molecule, inducing T lymphocyte activation and IL-2 synthesis, and preventing cell death.
References	1.W Lesslauer, et al. (1986) Eur J Immunol. 16(10):1289-96. 2.C H June, et al. (1990) Immunol Today. 11(6):211-6. 3.T M Williams, et al. (1992) J Immunol. 148(8):2609-16. 4.P S Linsley, et al. (1993) Annu Rev Immunol. 11:191-212. 5.R J Peach, et al. (1994) J Exp Med. 180(6):2049-58. 6.Edward J Evans, et al. (2005) Nat Immunol. 6(3):271-9.
Synonyms	CD28, CD28 antigen, T-cell-specific surface glycoprotein CD28

Selected Validation Data



Purity of Recombinant Mouse CD28 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Mouse CD86 (His tag) at 1 μ g/mL (100 μ L/well) can bind Mouse CD28 (hFc tag) with a linear range of 23-91 ng/mL.

For technical support and original validation data for this product please contact

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