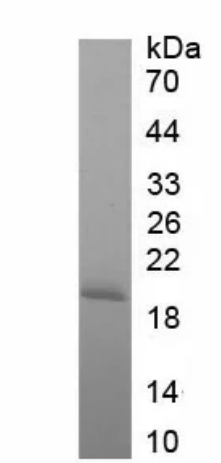
Active Cluster Of Differentiation 28 (CD28)

Catalog#:PEM12450

概述（Summary）

别称（Alternative Names）	Tp44; T-Cell-Specific Surface Glycoprotein
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Asn20-Leu150】
Accession #	P31041
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	18.7 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Involved in T-cell activation, the induction of cell proliferation and cytokine production and promotion of T-cell survival. Enhances the production of IL4 and IL10 in T-cells in conjunction with TCR/CD3 ligation and CD40L costimulation.

电泳图（SDS-PAGE image）



Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

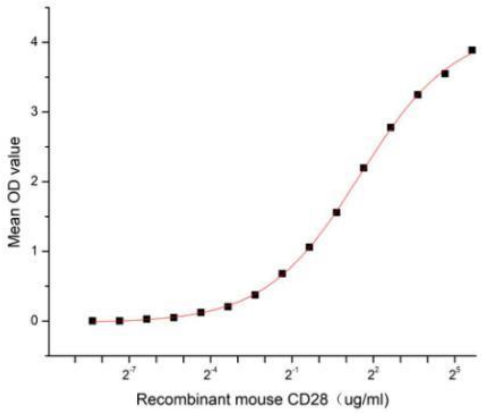


Figure 1. The binding activity of recombinant mouse CD28 and recombinant rat CTLA4

The cluster of differentiation (CD) antigen CD28 is a central co-stimulatory molecule for TCR-mediated activation such as cytokine production and T-cell proliferation upon ligand binding and TCR stimulation. It is a member of the immunoglobulin subfamily, other members of the subfamily include ICOS, CTLA4, PD1, PD1H, TIGIT and BTLA. Cytotoxic T-Lymphocyte Associated Antigen 4 (CTLA4) and CD28 are highly homologous and compete for the same ligands, CTLA4 can also bind with CD28 to form a dimer. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant mouse CD28 and recombinant rat CTLA4. Briefly, rmCD28 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CTLA4-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-CD28 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant mouse CD28 and recombinant rat CTLA4 was shown in Figure 1, the EC50 for this effect is 2.82 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.