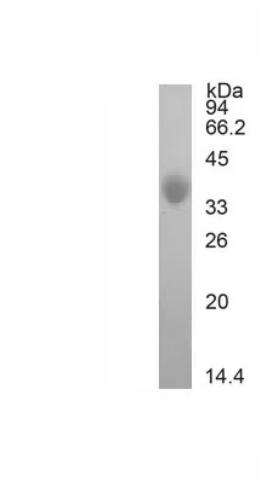
Active Cluster Of Differentiation 2 (CD2)

Catalog#:PHH12702

概述（Summary）

别称（Alternative Names）	LFA2; SRBC; T11; T-Cell Surface Antigen T11/Leu-5; LFA-3 Receptor; Lymphocyte Function Associated Antigen 2; Erythrocyte Receptor; Rosette Receptor; Sheep Red Blood Cell Receptor
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Lys25-Asp209】
Accession #	P06729
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	22.8 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）	CD2 interacts with lymphocyte function-associated antigen CD58 (LFA-3) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T-cells, the cytoplasmic domain is implicated in the signaling function.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

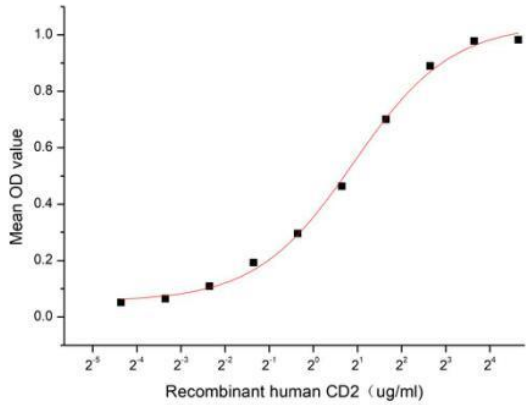


Figure 1. The binding activity of recombinant human CD2 with recombinant human CD5

Cluster of Differentiation 2 (CD2) is a surface antigen found on all peripheral blood T-cells. CD2 functions as an activator of T lymphocytes and thymocytes. Mature human CD2 consists of a 185 amino acid (aa) extracellular domain (ECD) with an Ig-like V-type and an Ig-like C2 type domain, a 26 aa transmembrane segment, and a 116 aa cytoplasmic tail. Cluster of Differentiation 5 (CD5) has been identified as an interactor of CD2, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human CD2 and recombinant human CD5. Briefly, CD2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CD5-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-CD2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 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 nm immediately. The binding activity of recombinant human CD2 and recombinant human CD5 was shown in Figure 1, the EC50 was 1.88 ug/ml.

注意事项（Note）

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