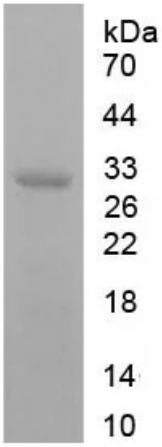
Active Tumor Necrosis Factor Receptor Superfamily, Member 5 (CD40)

Catalog#:PHH12634

概述（Summary）

别称（Alternative Names）	TNFRSF5; CDW40; Bp50; P50; B-cell surface antigen CD40; CD40L 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）	【Cys26-Gly187】
Accession #	P25942
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	19.5 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）	Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

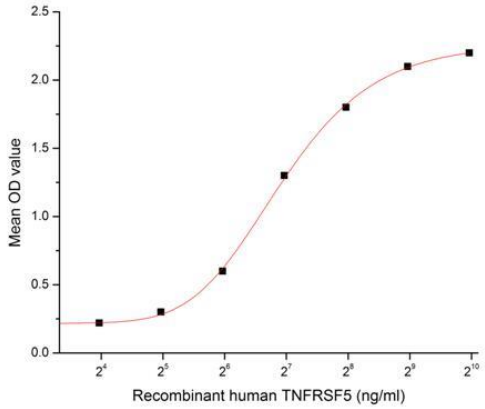


Figure 1. The binding activity of TNFRSF5 with TNFSF5

CD40, also known as Tumor Necrosis Factor Receptor Superfamily, Member 5 (TNFRSF5), is a 45-50 kDa type I transmembrane glycoprotein member of the TNF receptor superfamily. Mature human CD40 consists of a 173 amino acid (aa) extracellular domain, a transmembrane domain, and a 62 aa cytoplasmic domain. CD40 is expressed on the surface of B cells, dendritic cells, macrophages, monocytes and platelets, as well as endothelial and epithelial cells. Interaction of CD40 with its ligand, CD40 Ligand, leads to the aggregation of CD40 molecules resulting in the initiation of bidirectional intracellular signaling in both CD40 and CD40 Ligand expressing cells. A binding ELISA assay was conducted to detect the interaction of recombinant human TNFRSF5 and recombinant human TNFSF5. Briefly, TNFRSF5 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100µl were then transferred to TNFSF5-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-TNFRSF5 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 50µL stop solution to the wells and read at 450/630nm immediately. The binding activity of TNFRSF5 and TNFSF5 was shown in Figure 1, the ED50 for this effect is 120 ng/mL.

注意事项（Note）

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