

# Active Tumor Necrosis Factor Receptor Superfamily, Member 14 (TNFRSF14) Instruction Manual

## SBPD349Hu01

Homo sapiens (Human)

<b>Buffer Formulation</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Traits</b>	Freeze-dried powder
<b>Purity</b>	> 95%
<b>Isoelectric Point</b>	6.8
<b>Applications</b>	Cell culture; Activity Assays.

### ACTIVITY TEST

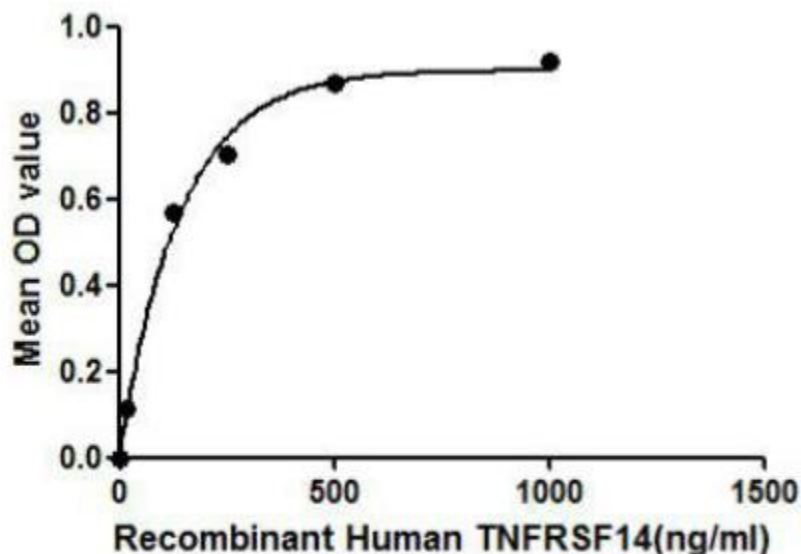


Figure 1. The binding activity of TNFRSF14 with TNF $\alpha$ .

TNFRSF14 (Tumor necrosis factor receptor superfamily member 14) belongs to the tumor necrosis factor receptor superfamily. TNFRSF14 functions in signal transduction pathways that activate inflammatory and inhibitory T-cell immune response. It binds herpes simplex virus (HSV) viral envelope glycoprotein D (gD), mediating its entry into cells. A binding ELISA assay was conducted to detect the association of TNFRSF14 with TNF $\alpha$ . Briefly, TNFRSF14 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 $\mu$ L TNFRSF14 were then transferred to TNF $\alpha$ -coated microtiter

wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TNFRSF14 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°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of TNFRSF14 and TNFa was shown in Figure 1, and this effect was in a dose dependent manner.

## **USAGE**

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

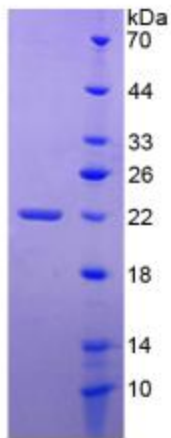
## **STORAGE**

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

## **STABILITY**

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

## **Image**



SDS-PAGE Image

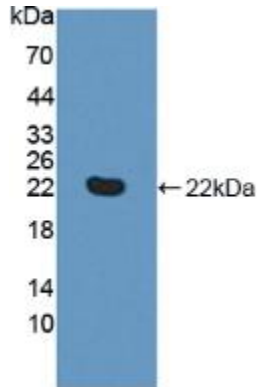


Figure. Western Blot; Sample: Recombinant TNFRSF14, Human.

**[IMPORTANT NOTE]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.