

# Active Cluster Of Differentiation 26 (CD26) Instruction Manual

## SBPA202Hu01

**Homo sapiens (Human)**

**Buffer Formulation**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Traits**

Freeze-dried powder

**Purity**

> 90%

**Isoelectric Point**

6.4

**Applications**

Cell culture; Activity Assays.

### ACTIVITY TEST

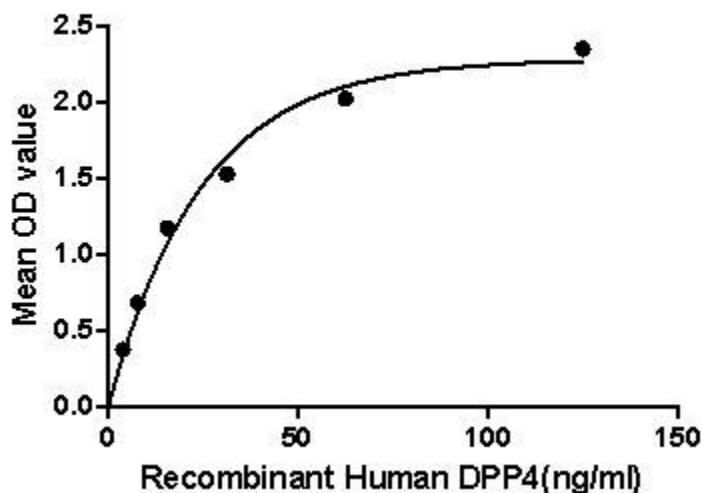


Figure. The binding activity of DPP4 with ECF.

Dipeptidyl peptidase-4 (DPP4), also known as adenosine deaminase complexing protein 2 or cluster of differentiation 26 (CD26), is a protein in humans. DPP4 is an antigenic enzyme expressed on the surface of most cell types and is associated with immune regulation, signal transduction and apoptosis. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Besides, Eosinophil Chemotactic Factor (ECF) has been identified as an interactor of DPP4, thus a binding ELISA assay was conducted to detect the interaction of recombinant human DPP4 and recombinant human ECF. Briefly, DPP4 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then

transferred to ECF-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-DPP4 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 DPP4 and ECF 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**

AGCAGGCGTGTGATGAGGCGTCAGAGCTCTGAGAGCATTCAGCTTGGATGAAATGCTCCAGAACTCCAGATCCCTCCAAAACTGGACTTCATTATTTGAAATGCAACAAAATTTGGATCAGATGACTTGGCTCTCATTTTGATGAAATCCAGAAATATCTCTACTATTAGATGCTGATCCAGCCCG  
S S V N D K G I R V L E D N S A L D K H L Q N V Q M P S K K L D F I I L N E T K F W Y Q H I L P P E F D K S K Y P I L L D V Y A G P

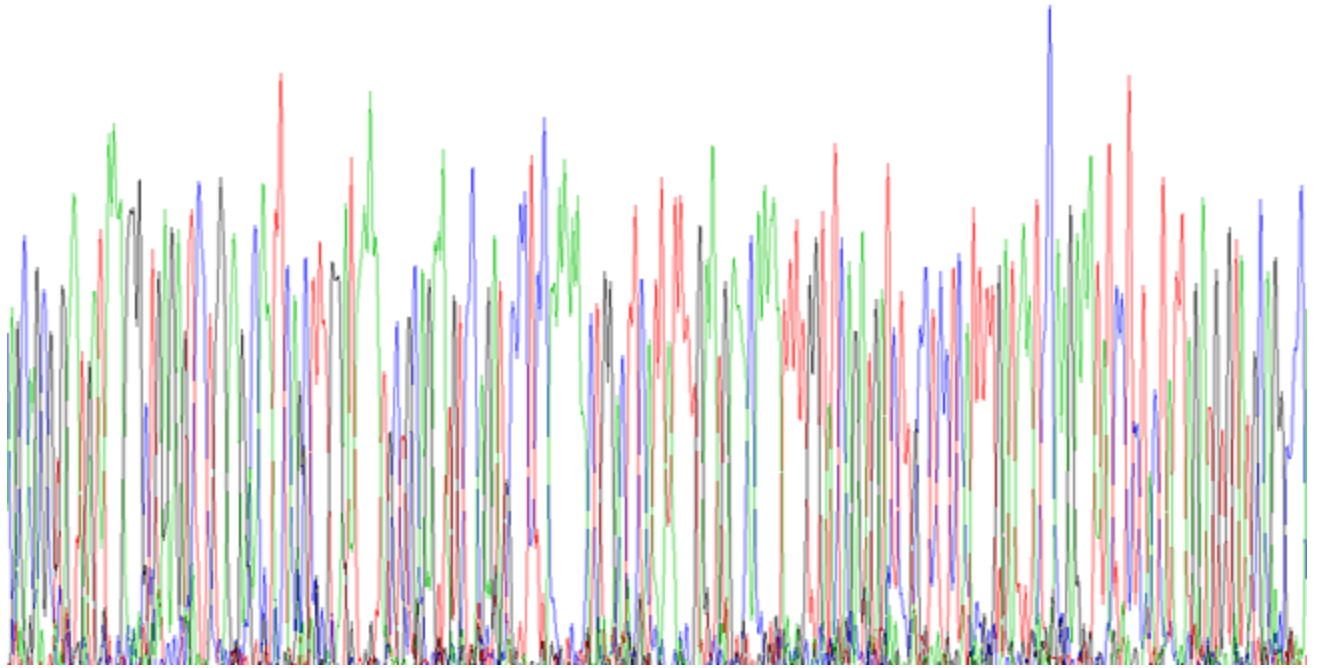


Figure. Gene Sequencing (Extract)

## Image

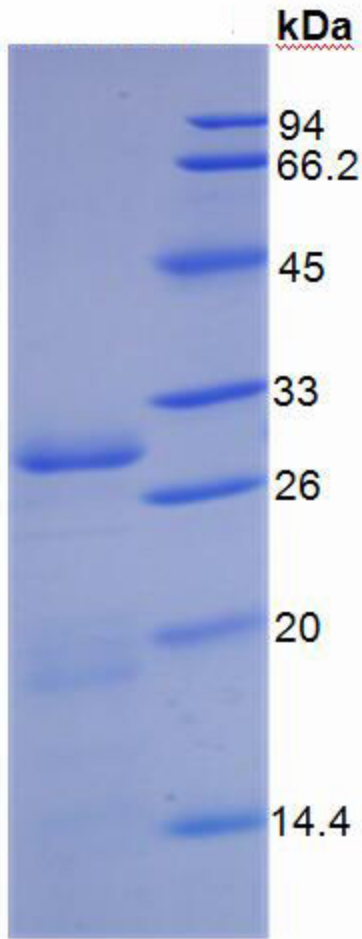


Figure. SDS-PAGE

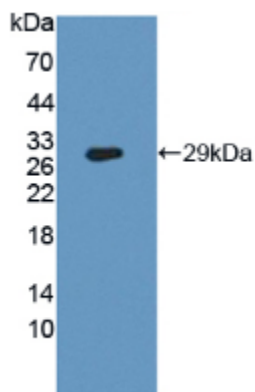


Figure. Western Blot

**[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.