Active Carcinoembryonic Antigen (CEA) Instruction Manual

SBPA092Hu02

Homo sapiens (Human)

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, **Buffer Formulation**

1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

Traits Freeze-dried powder

> 97% **Purity** 5.9 **Isoelectric Point**

Applications Cell culture; Activity Assays.

ACTIVITY TEST

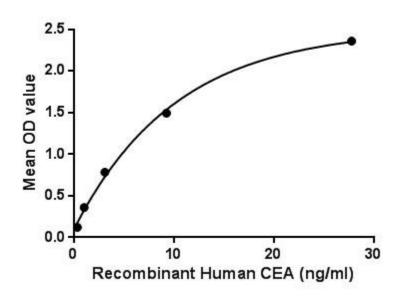


Figure. The binding activity of CEA with GLA4.

Carcinoembryonic antigen (CEA) which are characterized as members of the CD66 cluster of differentiation have highly related glycoproteins involved in cell adhesion. It also can be used as a tumor marker in clinical tests. CEA are glycosyl phosphatidyl inositol (GPI) cell-surface-anchored glycoproteins whose specialized sialofucosylated glycoforms serve as functional colon carcinoma L-selectin and E-selectin ligands. Besides, Galectin 4 (GAL4) has been identified as an interactor of CEA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CEA and recombinant human GLA4. Briefly, CEA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to GLA4-coated microtiter

wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CEA 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 CEA and GLA4 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



Figure. Gene Sequencing (Extract)

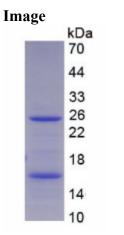


Figure. SDS-PAGE

[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.