Active Collagen Type VI Alpha 1 (COL6a1) Instruction Manual

SBPC092Mu02

Mus musculus (Mouse)

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 > 95% Isoelectric Point 6.1

Applications Cell culture; Activity Assays.

ACTIVITY TEST

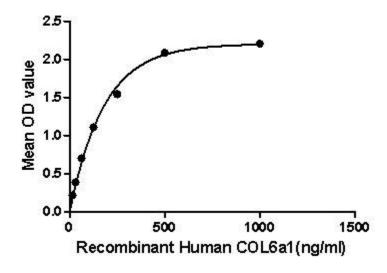


Figure. The binding activity of COL6a1 with PDGFA. Collagen alpha-1(VI) chain (COL6a1) is a protein that in humans, the collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Besides, Platelet-derived growth factor subunit A (PDGFA) has been identified as an interactor of COL6A1, thus a binding ELISA assay was conducted to detect the interaction of recombinant human COL6a1 and recombinant human PDGFA. Briefly, COL6a1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PDGFA-coated microtiter

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

with anti-COL6a1 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 COL6a1 and PDGFA 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

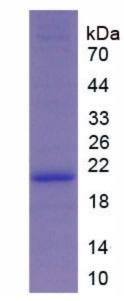


Figure. SDS-PAGE

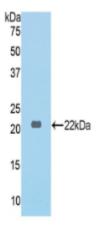


Figure. Western Blot

[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.