Active Histidine Rich Glycoprotein (HRG) Instruction Manual

SBPC306Hu61

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	> 97%
Isoelectric Point	7.0
Applications	Cell culture; Activity Assays.

ACTIVITY TEST

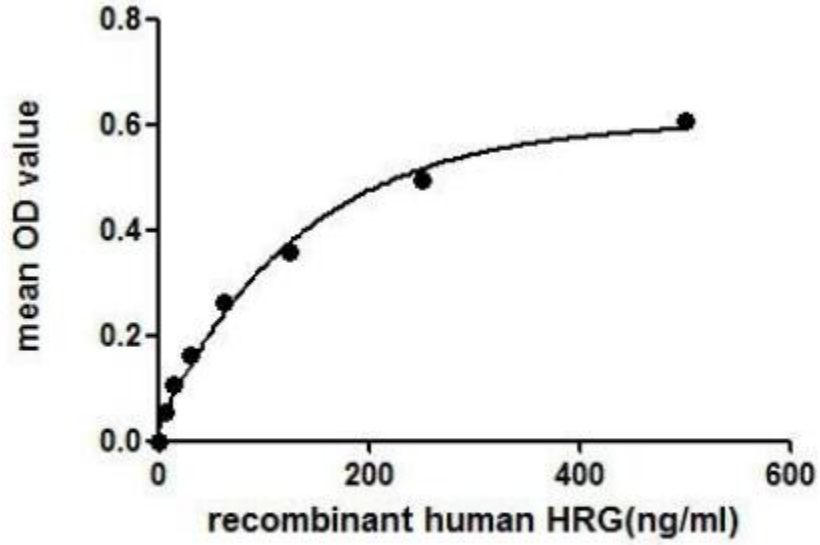


Figure 1. The Binding Activity of rhHRG with Heparin.

HRG (Histidine-rich glycoprotein) is a plasma glycoprotein which is distinguished by its high content of histidine and proline. HRG binds a number of ligands such as heme, heparin, heparan sulfate, thrombospondin, plasminogen, and divalent metal ions. Thus, a functional binding ELISA assay was constructed to detect the association of rhHRG with heparin. Briefly, Microtiter wells were coated with OVA-conjugated-heparin. rhHRG were diluted serially in 0.01M PBS (pH 7.4). Duplicate samples of 100uL were then transferred to the coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-HRG PAb, then aspirated and washed 3 times. After incubation with HRP labeled 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 rhHRG with heparin 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.

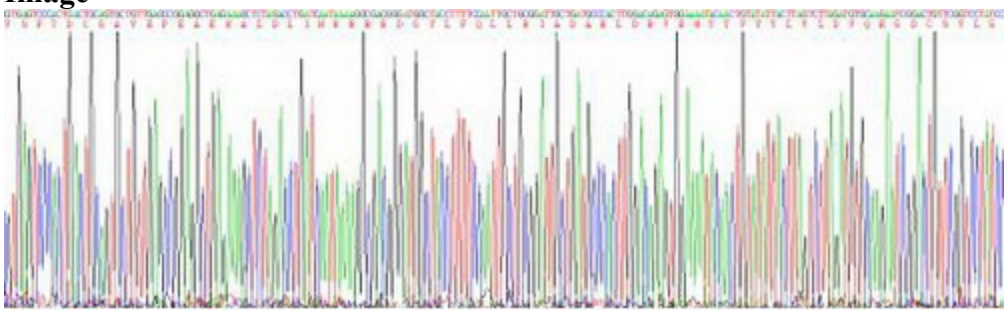
STORAGE

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

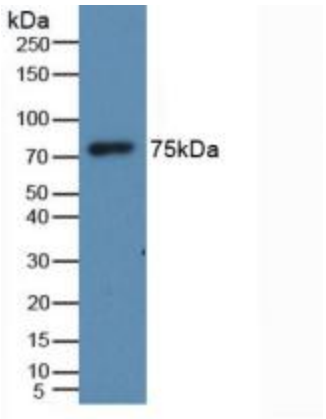


Figure. Western Blot;Sample: Recombinant HRG, Human.

[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.