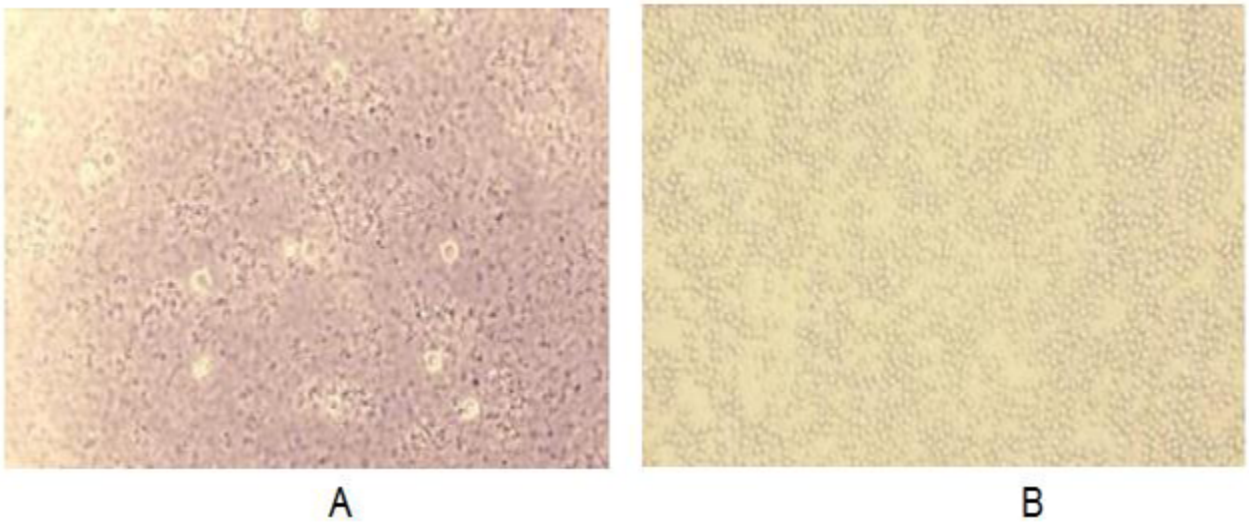
Active Complement Factor B (CFB) Instruction Manual

SBPC007Hu03

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	6.7
Applications	Cell culture; Activity Assays.

ACTIVITY TEST



Complement Factor B (CFB) a component of the alternative pathway of complement activation. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease that associates with C3b to form the alternative pathway C3 convertase. The method of functional assay of CFB was tested in hemolysis assays. Two-fold dilute the recombinant human CFB with 0.9% NaCl, 2mmol/L MgCl2 ,and then add same volume of 1% rabbit erythrocyte (RaE) in 8mmol/L EDTA, the negative control only without MgCl2. All the samples incubated at 37℃. After 3 hours later, take 10μL supernatant and 90μL TMB incubated at 37℃ for 5-10 minutes. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The results are shown in Figure 1. It was obvious that the minimal effective concentration of CFB is 0.3125μg/mL.(A) 1%

rabbit erythrocyte (RaE) treated with 0.3125μg/mL CFB for 1h
(B) Negative control (1% RaE treated with 0.3125ug/mL CFB, 8mmol/L EDTA) without MgCl2.
Figure. The hemolysis effection of recombinant human CFB

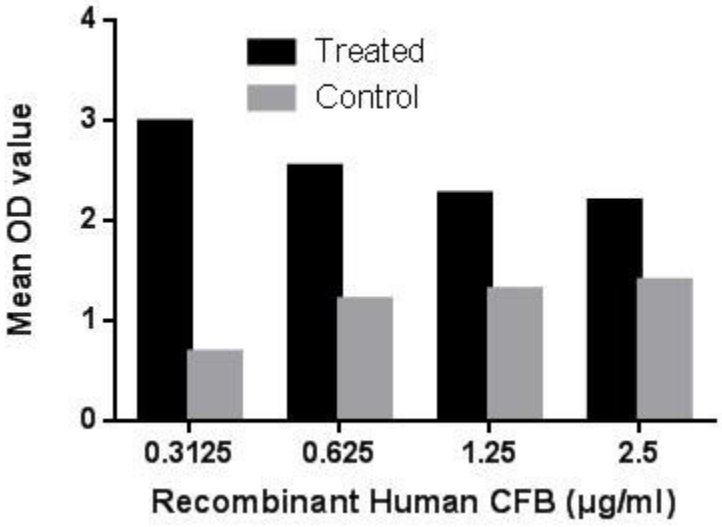


Figure. The hemolysis activity of recombinant human CFB

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

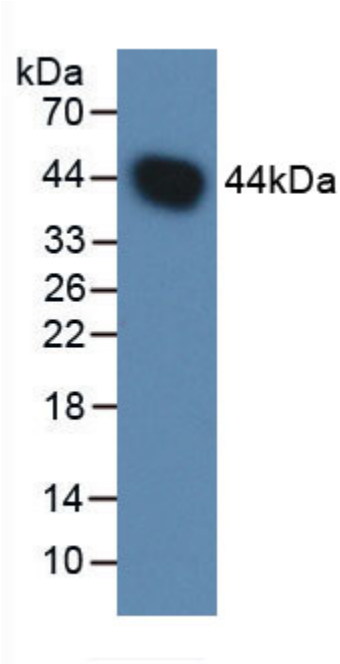


Figure. Western Blot

[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.