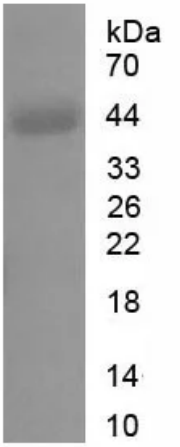
Active Complement Factor B (CFB)

Catalog#:PEH12800

概述（Summary）

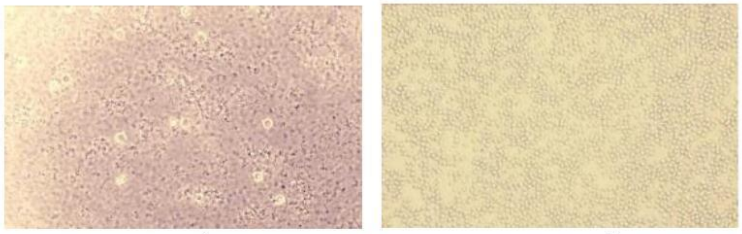
别称（Alternative Names）	CF-B; BF; BFD; CFAB; GBG; H2-Bf; PBF2; B-Factor; Properdin; Properdin factor B; C3/C5 convertase; Glycine-rich beta glycoprotein
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Gly35-Asn160】
Accession #	P00751
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	44.3 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Factor B which is part of the alternate pathway of the complement system is cleaved by factor D into 2 fragments: Ba and Bb. Bb, a serine protease, then combines with complement factor 3b to generate the C3 or C5 convertase. It has also been implicated in proliferation and differentiation of preactivated B-lymphocytes, rapid spreading of peripheral blood monocytes, stimulation of lymphocyte blastogenesis and lysis of erythrocytes. Ba inhibits the proliferation of preactivated B-lymphocytes.

电泳图（SDS-PAGE image）

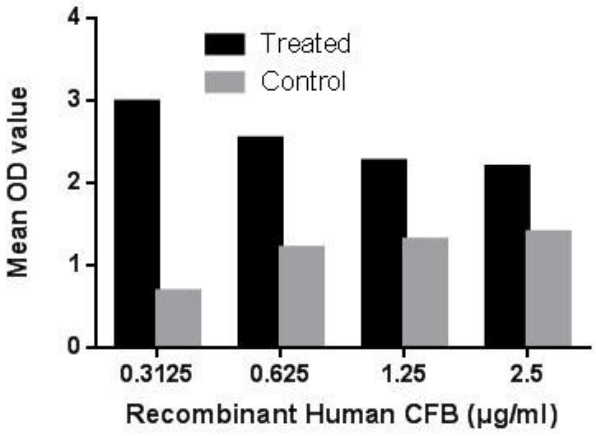


Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



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



注意事项（Note）

For Research Use Only , Not for Diagnostic Use.