Active B-Cell Activating Factor (BAFF)

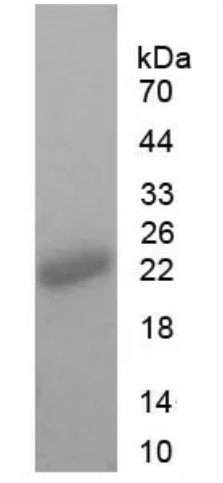
Catalog#:PEH12723

概述（Summary）

别称（Alternative Names）	CD257; TNFSF13B; BLYS; TALL1; THANK; TNFSF20; ZTNF4; B lymphocyte stimulator; Tumor Necrosis Factor Ligand Superfamily Member 13B; Dendritic cell-derived TNF-like
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）	【Lys113-Lys283】
Accession #	Q9Y275
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	20.4 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）	Cytokine that binds to TNFRSF13B/TACI and TNFRSF17/BCMA. TNFSF13/APRIL binds to the same 2 receptors. Together, they form a 2 ligands -2 receptors pathway involved in the stimulation of B- and T-cell function and the regulation of humoral immunity. A third B-cell specific BAFF-receptor (BAFFR/BR3) promotes the survival of mature B-cells and the B-cell response.; Isoform 2 seems to inhibit isoform 1 secretion and bioactivity.; Acts as a transcription factor for its own parent gene, in association with NF-kappa-B p50 subunit, at least in

autoimmune and proliferative B-cell diseases. The presence of Delta4BAFF is essential for soluble BAFF release by IFNG/IFN-gamma-stimulated monocytes and for B-cell survival. It can directly or indirectly regulate the differential expression of a large number of genes involved in the innate immune response and the regulation of apoptosis.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

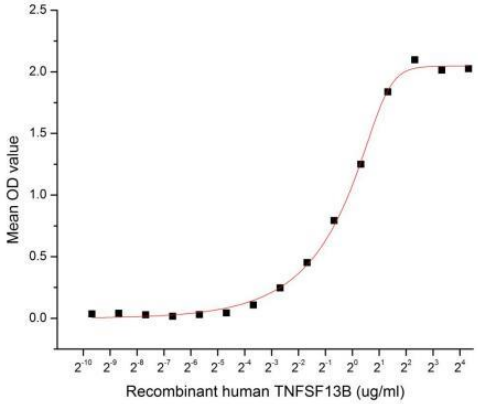


Figure 1. The binding activity of TNFSF13B with ITGb1

Tumor necrosis factor ligand superfamily member 13B protein (TNFSF13B) also known as B-cell activating factor (BAFF) is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptors TNFRSF13B/TACI, TNFRSF17/BCMA, and TNFRSF13C/BAFF-R. This cytokine is expressed in B cell lineage cells, and acts as a potent B cell activator. It has been also shown to play an important role in the proliferation and differentiation of B cells. Besides, Integrin Beta 1 (ITGb1) has been identified as an interactor of TNFSF13B, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TNFSF13B and recombinant human ITGb1. Briefly, TNFSF13B were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to ITGb1-coated microtiter wells and incubated for 2h at 37℃. Wells were washed with PBST and incubated for 1h with anti-TNFSF13B 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℃. Finally, add 50μL stop solution to the wells and read at 450nm immediately. The binding activity of TNFSF13B and ITGb1 was shown in Figure 1, the EC50 was 0.74~0.93 ug/ml.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.