

B-Cell Activating Factor Active Protein | BAFF active protein

Active B-Cell Activating Factor (BAFF)

CATALOG #
AAA150113

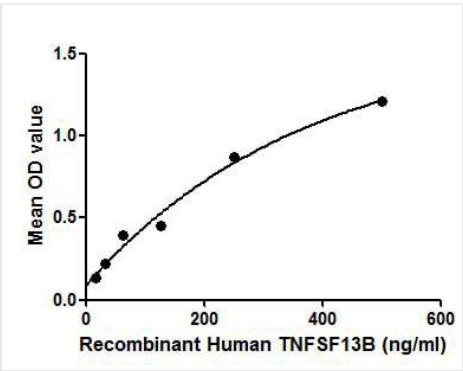
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

B-Cell Activating Factor; Active B-Cell Activating Factor (BAFF); CD257; TNFSF13B; BLYS; TALL1; THANK; TNFSF20; ZTNF4; B lymphocyte stimulator; Tumor Necrosis Factor Ligand Superfamily Member 13B; Dendritic cell-derived TNF-like; BAFF active protein

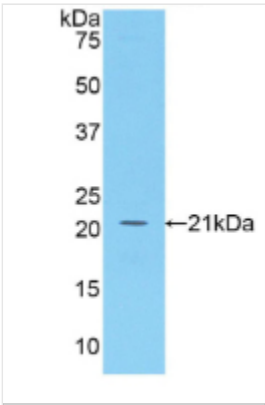
PRODUCT SPECIFICATIONS

Purity/Purification	>90%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Lys113~Lys283
Sequence Length	266
Applicable Applications for BAFF active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	5.9
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. 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 degree 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.

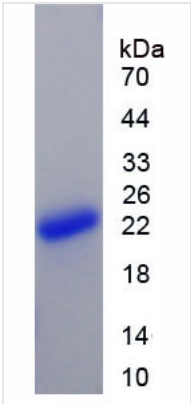


Bioactivity

Figure. 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 50uL stop solution to the wells and read at 450nm immediately. The binding activity of TNFSF13B and ITGb1 was shown in Figure 1, and this effect was in a dose dependent manner.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for BAFF active protein	CD & Adhesion molecule; Tumor immunity; Infection immunity; Immune molecule
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NCBI AND UNIPROT INFORMATION

NCBI GI #	224548983
NCBI GeneID	10673
NCBI Accession #	NP_001139117.1
NCBI GenBank Nucleotide #	NP_001139117.1
UniProt Accession #	Q9Y275

Molecular Weight	Predicted Molecular Mass: 20.4kDa Accurate Molecular Mass: 22kDa
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 13B isoform 2
NCBI Official Synonym Full Names	TNF superfamily member 13b
NCBI Official Symbol	TNFSF13B
NCBI Official Synonym Symbols	DTL; BAFF; BLYS; CD257; TALL1; THANK; ZTNF4; TALL-1; TNLG7A; TNFSF20
NCBI Protein Information	tumor necrosis factor ligand superfamily member 13B
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 13B
UniProt Gene Name	TNFSF13B
UniProt Synonym Gene Names	BAFF; BLYS; TALL1; TNFSF20; ZTNF4; BLYS; TALL-1
UniProt Entry Name	TN13B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baff-active-protein/b-cell-activating-factor/150113>