abcam

Product datasheet

Recombinant human BAFF-R protein (Fc Chimera) ab83931

3 Images

Description

Product name	Recombinant human BAFF-R protein (Fc Chimera)
Biological activity	The ED_{50} of BAFF Receptor – Fc Chimera is typically 0.02-0.08 µg/ml as measured by its ability to neutralize BAFF-mediated proliferation of the RPMI 8226 cell line.
Purity	> 95 % SDS-PAGE.
Expression system	HEK 293 cells
Accession	**Q96RJ3**
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	Theoretical Sequence: SLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKP AGASSPAPRTA LQPQESVGAGAGEAALPGSSNTKVDKKVEPKSCDKTHT CPPCPAPELLGG PSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFN WYVDGVEVHNA KTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNK ALPAPIEKTIS KAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDI AVEWESNGQP ENNYKTTPPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCS VMHEALHNHYT QKSLSLSPGK
Additional sequence information	A fusion of the signal peptide of human GH receptor to the extracellular domain of human BAFF-R (aa 2-73), and the Fc region of human IgG1 (aa 93-330), expressed in modified human 293 cells.

Specifications

Our **Abpromise guarantee** covers the use of **ab83931** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Lyophilized

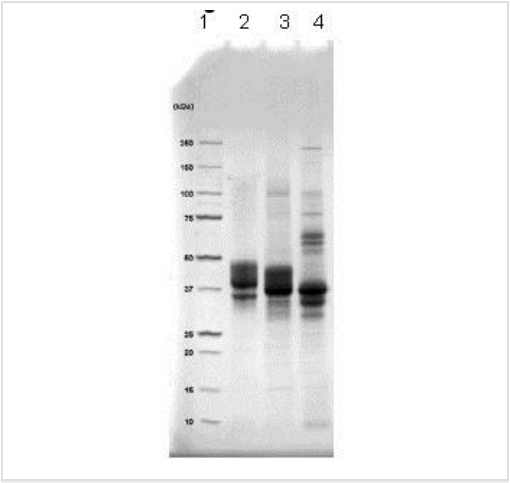
Preparation and Storage

Stability and Storage	Shipped at 4°C. After reconstitution store at -20ºC. Avoid freeze / thaw cycles. Constituents: 10% Trehalose, 1% Human serum albumin This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

General Info

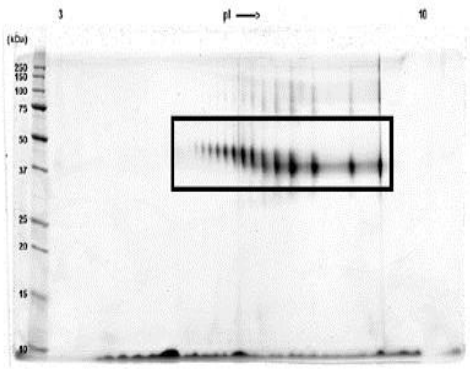
Function	B-cell receptor specific for TNFSF13B/TALL1/BAFF/BLyS. Promotes the survival of mature B-cells and the B-cell response.
Tissue specificity	Highly expressed in spleen and lymph node, and in resting B-cells. Detected at lower levels in activated B-cells, resting CD4+ T-cells, in thymus and peripheral blood leukocytes.
Involvement in disease	Defects in TNFRSF13C are the cause of immunodeficiency common variable type 4 (CVID4) [MIM:613494]; also called antibody deficiency due to BAFFR defect. CVID4 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen. The defect results from a failure of B-cell differentiation and impaired secretion of immunoglobulins; the numbers of circulating B cells is usually in the normal range, but can be low.
Sequence similarities	Contains 1 TNFR-Cys repeat.
Cellular localization	Membrane.

Images



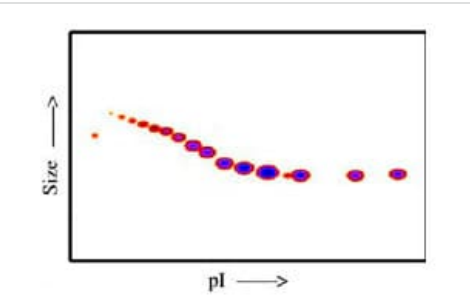
SDS-PAGE - Recombinant human BAFF-R protein (Fc Chimera) (ab83931)

Lane 1 – MW markers; Lane 2 – ab83931; Lane 3 – ab83931 treated with PNGase F to remove potential N-linked glycans; Lane 4 – ab83931 treated with a glycosidase cocktail to remove potential N- and O-linked glycans. 3 µg of protein was loaded per lane. Gels were stained with Coomassie G250.
Drop in MW after treatment with PNGase F indicates the presence of N-linked glycans. A subsequent drop in MW after treatment with a glycosidase cocktail indicates O-linked glycans are also present. Additional high MW bands in lane 4 are glycosidase enzymes.



SDS-PAGE - Recombinant human BAFF-R protein (Fc Chimera) (ab83931)

A sample of ab83931 without carrier protein was reduced and alkylated. 40 µg of protein was loaded, focused on a 3-10 IPG strip then run on a 4-20% Tris-HCl 2D gel. Spot train (Deep Purple™ stained) indicates presence of multiple glycoforms of BAFF Receptor - Fc Chimera. Spots within the spot train were cut from the gel and identified by protein mass fingerprinting as BAFF Receptor - Fc Chimera.



Functional Studies - Recombinant human BAFF-R protein (Fc Chimera) (ab83931)

Post-translational modifications result in protein heterogeneity. The densitometry scan demonstrates the purified human cell expressed protein exists in multiple glycoforms, which differ according to their level of post-translational modification.

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