Human BAFFR / TNFRSF13C Protein, Llama IgG2b Fc Tag, low endotoxin

Catalog # BAR-H5258

Synonym

BAFFR,TNFRSF13C,BROMIX,CD268,CVID4,prolixin,BAFF-R

Source

Human BAFFR Protein, Llama IgG2b Fc Tag(BAR-H5258) is expressed from human 293 cells (HEK293). It contains AA Ser 7 - Ala 71 (Accession # Q96RJ3-1).
Predicted N-terminus: Ser 7

Molecular Characterization

BAFFR(Ser 7 - Ala 71) Q96RJ3-1	LlamaFc(Glu1 - Ser243) AAX73259.1

This protein carries a llama IgG2b Fc tag at the C-terminus.

The protein has a calculated MW of 34.4 kDa. The protein migrates as 42-55 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

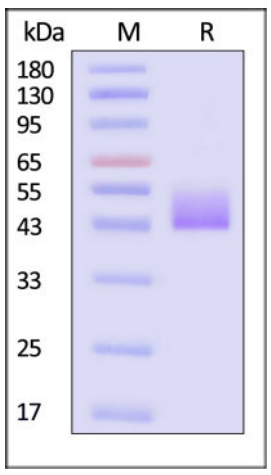
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

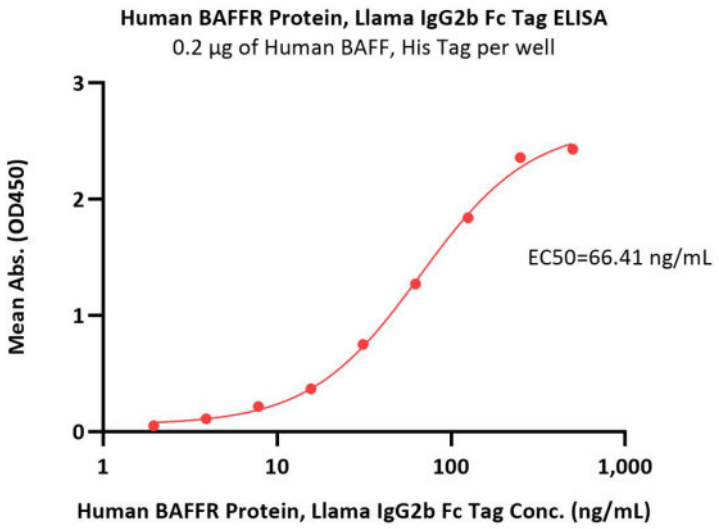
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

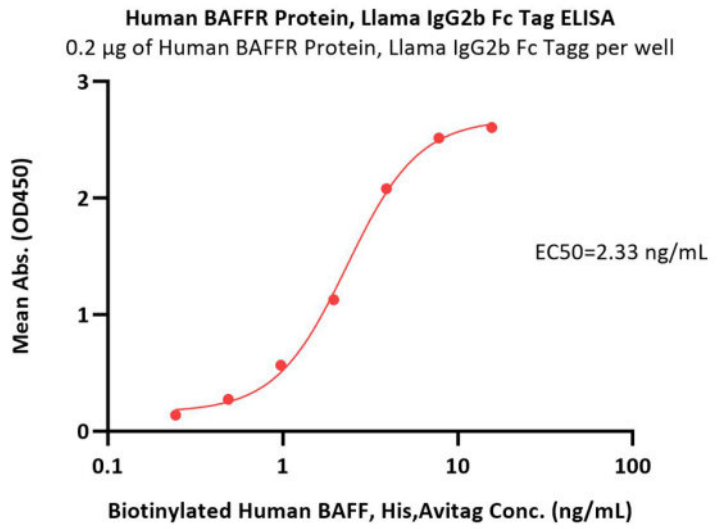


Human BAFFR Protein, Llama IgG2b Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

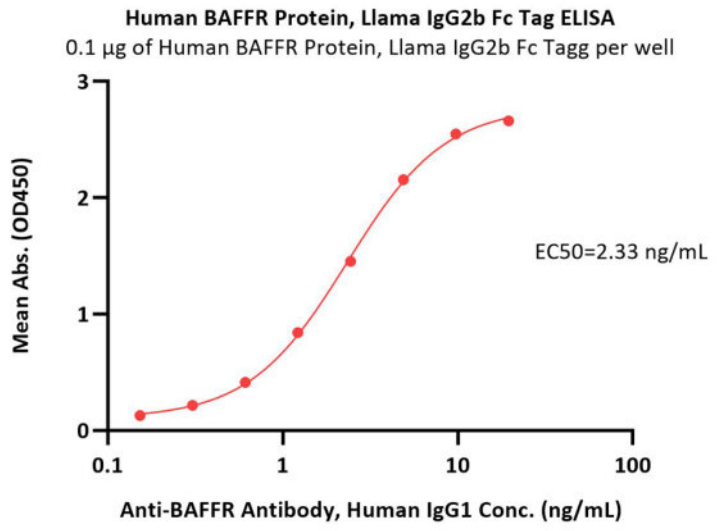
Bioactivity-ELISA



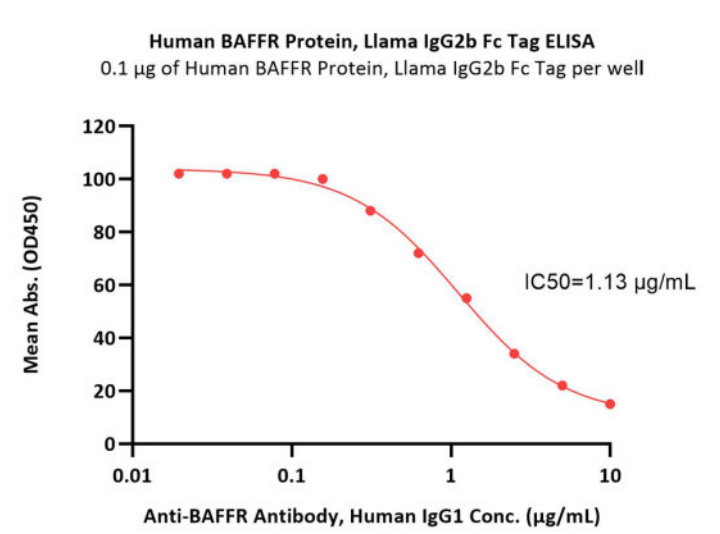
Immobilized Human BAFF, His Tag at 2 μg/mL (100 μL/well) can bind Human BAFFR, Llama IgG2b Fc Tag (Cat. No. BAR-H5258) with a linear range of 2-125 ng/mL (QC tested).



Immobilized Human BAFFR Protein, Llama IgG2b Fc Tag (Cat. No. BAR-H5258) at 2 μg/mL (100 μL/well) can bind Biotinylated Human BAFF, His,Avitag (Cat. No. BAF-H82Q2) with a linear range of 0.2-4 ng/mL (Routinely tested).

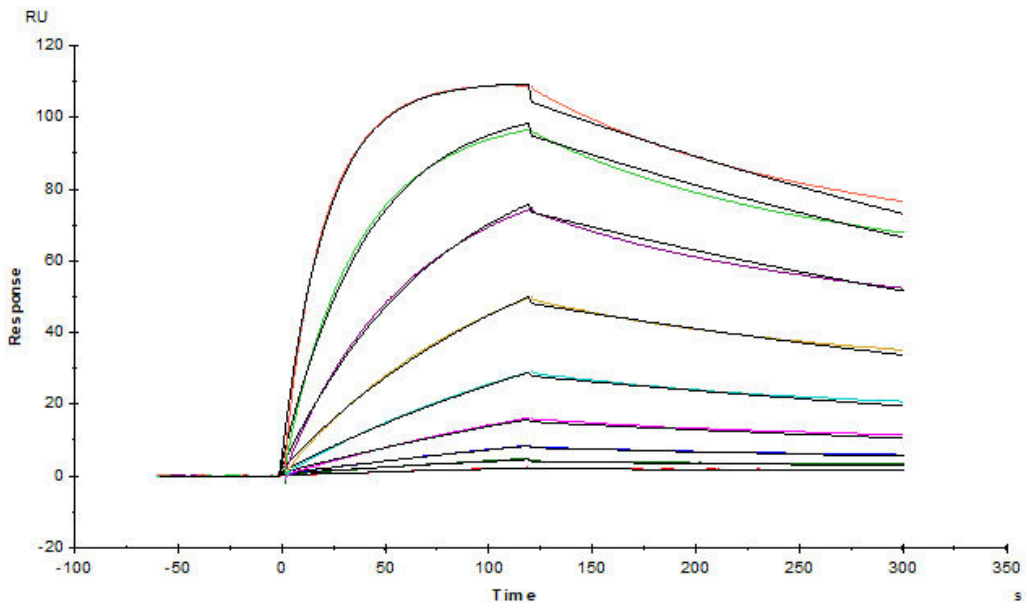


Immobilized Human BAFFR Protein, Llama IgG2b Fc Tag (Cat. No. BAR-H5258) at 1 μg/mL (100 μL/well) can bind Anti-BAFFR Antibody, Human IgG1 with a linear range of 0.2-5 ng/mL (QC tested).



Serial dilutions of Anti-BAFFR Antibody, Human IgG1 were added into Human BAFFR Protein, Llama IgG2b Fc Tag (Cat. No. BAR-H5258): Biotinylated Human BAFF Protein, His,Avitag (Cat. No. BAF-H82Q2) binding reactions. The half maximal inhibitory concentration (IC50) is 1.1323 μg/mL (Routinely tested).

Bioactivity-SPR



Immobilized Human BAFF Protein, Fc Tag (Cat. No. BAF-H5261) captured on CM5 chip via Anti-human IgG Fc antibodies surface can bind Human BAFFR Protein, Llama IgG2b Fc Tag (Cat. No. BAR-H5258) with an affinity constant of 44.5 nM as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

BAFF receptor (B-cell activating factor receptor, BAFF-R), also known as tumor necrosis factor receptor superfamily member 13C (TNFRSF13C), is a membrane protein of the TNF receptor superfamily which recognizes BAFF. B-cell activating factor (BAFF) enhances B-cell survival in vitro and is a regulator of the peripheral B-cell population. Overexpression of BAFF in mice results in mature B-cell hyperplasia and symptoms of systemic lupus erythematosus (SLE). Also, some SLE patients have increased levels of BAFF in serum. Therefore, it has been proposed that abnormally high levels of BAFF may contribute to the pathogenesis of autoimmune diseases by enhancing the survival of autoreactive B cells.