

Product Data Sheet

BAFFR/TNFRSF13C Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P77570
Synonyms:	CD268; BAFFR; BR3; TNFRSF13C; BROMIX; CVID4; prolixin
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5V1K1 (S7-G76)
Gene ID:	/
Molecular Weight:	13-25 kDa

PROPERTIES Biological Activity Immobilized Cynomolgus BAFFR, His Tag at 1µg/ml (100µl/Well) on plate.Dose response curve for Anti-BAFFR Ab., hFc Tag with the EC ₅₀ of 11.1ng/ml determined by ELISA. Appearance Lyophilized powder. Formulation Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
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Endotoxin Level <1 EU/µg, determined by LAL method.
Reconsititution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BAFF Receptor is expressed on all B cells (except plasma cells), including immature, transitional, mature, memory, and germinal center B cells, as well as on plasma cells ^[2] , while BAFF-R is also expressed on follicular helper T cells (TFH) ^[3] . The amino acid sequence of human BAFF Receptor protein has low homology for mouse and rat BAFF Receptor protein. BAFF Receptor binds to BAFF and recruits TNF receptor-associated factor 3 (TRAF-3) and TRAF-2 to the intracellular domain of BAFF-R molecules. The binding of TRAF3 to the BAFF-R reverses the inhibitory effect of unbound/cytoplasmic TRAF3 on the alternative NF-κB2 signaling pathway. It releases NF-κB-inducing kinase (NIK), which phosphorylates inhibitor of κB
	kinase 1 (IKK1) leading to activation of non-canonical NF-κB. BAFF-R signaling is critical for peripheral B cell survival and differentiation, germinal center formation, plasma cell survival, and IgG and IgE class switching ^[2] . BAFF Receptor binds to BAFF mediates B-cell survival, proliferation, and differentiation, and involves in the formation of GCs in secondary follicles in murine models and tertiary lymphoid structures in autoimmune diseases ^[3] . BAFF/BAFF-R signaling is crucial for primary B cell survival, differentiation and homeostasis ^[4] . A/WySnJ mice expressing a defective BAFF-R have disrupted B cell maturation, similar to that seen in BAFF-deficient mice ^[5] .

REFERENCES

[1]. Rodig SJ, et al. BAFF-R, the major B cell-activating factor receptor, is expressed on most mature B cells and B-cell lymphoproliferative disorders. Hum Pathol. 2005 Oct;36(10):1113-9.

[2]. Thompson N, et al. Exploring BAFF: its expression, receptors and contribution to the immunopathogenesis of Sjögren's syndrome. Rheumatology (Oxford). 2016 Sep;55(9):1548-55.

[3]. Carrillo-Ballesteros FJ, et al. B-cell activating factor receptor expression is associated with germinal center B-cell maintenance. Exp Ther Med. 2019 Mar;17(3):2053-2060.

[4]. Zheng N, et al. BAFF promotes proliferation of human mesangial cells through interaction with BAFF-R. BMC Nephrol. 2015 May 15;16:72.

[5]. Ng LG, et al. B cell-activating factor belonging to the TNF family (BAFF)-R is the principal BAFF receptor facilitating BAFF costimulation of circulating T and B cells. J Immunol. 2004 Jul 15;173(2):807-17.

[6]. Warnatz K, et al. B-cell activating factor receptor deficiency is associated with an adult-onset antibody deficiency syndrome in humans. Proc Natl Acad Sci U S A. 2009 Aug 18;106(33):13945-50.

Caution: Product has not been fully validated for medical applications. For research use only.

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