

IVMB0214

Product Information

Product SKU:	IVMB0214	Clone:	Tabalumab	Target:	BAFF
Size:	500 µg			Isotype:	Human IgG1κ

Additional Information

Reactivity:	Human/Cynomolgus Monkey/Rabbit	Host Species:	Human
Antibody Type:	Biosimilar Recombinant Human Monoclonal Antibody	Expression Host:	HEK-293 Cells

Immunogen Information

Background:	Tabalumab is a human monoclonal anti-B-cell activating factor (BAFF) antibody intended for the treatment of autoimmune diseases and B cell malignancies. ¹ BAFF is a membrane-bound, type II transmembrane protein that belongs to the tumor necrosis factor (TNF) ligand family and is the ligand for BR3, TACI, and BCMA. BAFF is an immunostimulant necessary for maintaining normal immunity. This cytokine has also been shown to play an important role in the proliferation and differentiation of B cells. An inadequate level of BAFF leads to immunodeficiency whilst an elevated level of BAFF causes unusually high antibody production that results in the development of autoimmune diseases such as systemic lupus erythematosus and rheumatoid arthritis. Additionally, BAFF has been found in renal transplant biopsies with acute rejection. ² Furthermore, BAFF may be a mediator of food-related inflammation, and is associated with multiple dietary ailments including celiac disease, insulin resistance, diabetes, and obesity. ³ Interestingly, it is suspected that BAFF may be involved in non-IgE-mediated reactions because there is no known correlation between BAFF and IgE. ⁴ More research is needed to unlock the enormous therapeutic potential for BAFF antagonists. This cost-effective, research-grade Anti-Human CD257 (BAFF) (Tabalumab) utilizes the same variable regions from the therapeutic antibody Tabalumab making it ideal for research projects.
Endotoxin Level:	< 1.0 EU/mg as determined by the LAL method
Applications:	ELISA

Synonyms:	Tabalumab, CD257, BAFF, TNFSF13b, BLYS
Antigen Distribution:	BAFF is expressed on various cell types including monocytes, dendritic cells and bone marrow stromal cells.
Immunogen:	Original antibody was raised against soluble human BAFF.
Formulation:	This biosimilar antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Specificity:	This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Tabalumab. Tabalumab neutralizes soluble human, cynomolgus monkey, and rabbit BAFF. Additionally, Tabalumab neutralizes membrane-bound BAFF. This product is for research use only.
Product Preparation:	Recombinant biosimilar antibodies are manufactured in an animal free facility using only in vitro protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Storage & Handling:	Functional grade biosimilar antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.