



Human B cell activation factor?BAFF ELISA Kit

Product Code	CSB-E11912h
Abbreviation	TNFSF13B
Target Name	tumor necrosis factor (ligand) superfamily, member 13b
Uniprot No.	Q9Y275
Alias	BAFF, BLYS, CD257, DTL, TALL-1, TALL1, THANK, TNFSF20, ZTNF4, ApoL related ligand TALL-1 B-cell activating factor B-lymphocyte stimulator TNF and ApoL-related leukocyte expressed ligand 1 TNF homolo
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	TNFSF13B
Tag Info	quantitative
Protein Description	Sandwich

Description

CUSABIO's human BAFF ELISA kit is an in vitro enzyme-linked immunosorbent assay for quantitatively measuring human BAFF in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of BAFF in samples. The color intensity is measured at 450 nm via a microplate reader.

BAFF, encoded by the TNFSF13B gene, is a ligand for BAFFR that is required for peripheral B-cell survival and homeostasis. Upon binding to BAFFR, BAFF activates several downstream pathways that regulate basic survival functions including protein synthesis and energy metabolism necessary to extend the half-life of immature, transitional, and mature B cells. BAFF/BAFFR signaling plays a fundamental role during the transition from immature T1 to T2 B cells and therefore in the generation of mature B cells in the spleen. BAFF is increased in autoimmune diseases and is correlated with disease activity. increased levels of BAFF have been detected in the serum and synovial fluid of rheumatoid arthritis



(RA) patients.

Target Details

This protein 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/BAFFR. 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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%
Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human BAFF in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	88
	Range %	82-95
1:2	Average %	90
	Range %	85-96
1:4	Average %	93
	Range %	90-95
1:8	Average %	92
	Range %	88-96

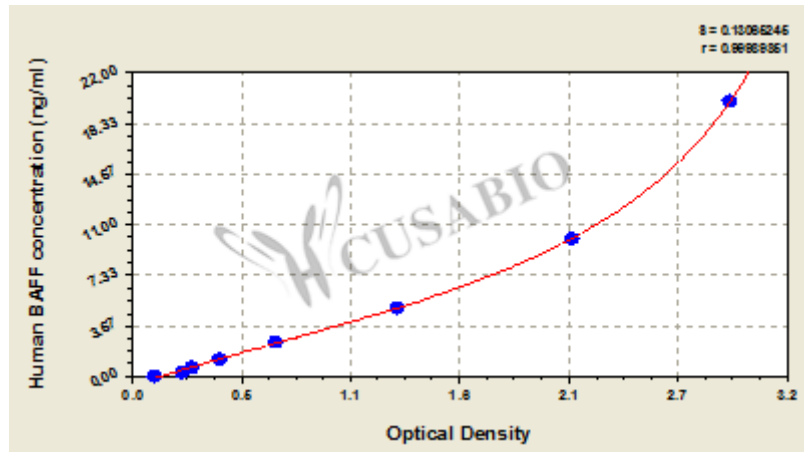
Recovery

The recovery of human BAFF spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	92	85-99
EDTA plasma (n=4)	90	87-94

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



ng/ml	OD1	OD2	Average	Corrected
20	2.912	2.953	2.933	2.819
10	2.142	2.175	2.159	2.045
5	1.295	1.312	1.304	1.190
2.5	0.727	0.695	0.711	0.597
1.25	0.426	0.443	0.435	0.321
0.625	0.297	0.312	0.305	0.191
0.312	0.247	0.261	0.254	0.140
0	0.112	0.115	0.114	?

Msds

```
{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-E11912h.pdf","filename":"MSDS"}}
```