

Technical Data Sheet

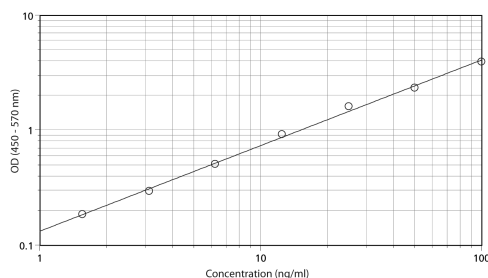
Purified Mouse anti-Human Blys (BAFF)

Product Information

Material Number:	558289
Size:	0.1 mg
Clone:	H32-406
Isotype:	Mouse IgG1, κ
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

Antibody H32-406 reacts with B-lymphocyte stimulator protein (Blys), also known as BAFF (B cell activating factor) and is a member of the TNF ligand superfamily. Members of the TNF receptor and ligand superfamily play a critical role in regulating immune responses. Blys is a type II membrane protein expressed on cells of myeloid lineage including monocytes, dendritic cells, and activated T cells. Blys exists in both a membrane-bound and soluble form. In its soluble form, Blys is a potent B cell growth factor in costimulation assays, suggesting its biological role in monocyte-driven B cell activation. Blys has also been linked to B cell hyperplasia and autoimmunity.



Human Blys sandwich ELISA curve: The curve was generated by a sandwich ELISA using the purified H32-406 as capture antibody, doubling dilutions of recombinant human Blys protein and biotin H32-544 (Cat. No. 558290) as detection antibody. Streptavidin-HRP (Cat. No. 554066) plus TMB substrate (Cat. No. 555214) were used to develop the ELISA.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4°C.

Application Notes

Application

ELISA	Tested
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Recommended Assay Procedure:

The purified H32-406 mAb is useful as a capture antibody for a sandwich ELISA that measures human Blys protein when paired with biotinylated mouse anti-human Blys (Cat. No. 558290) as detection antibody and recombinant human Blys protein as standard. The purified H32-406 antibody should be titrated between 1 - 4 $\mu\text{g/ml}$ to determine its optimal concentration. To obtain linear standard curves, doubling dilutions of recombinant human Blys protein ranging from 1.56 - 100 ng/ml are recommended. For specific methodology, see *Chapter 7: ELISA for specifically measuring the levels of cytokines, chemokines, and inflammatory mediators and their receptors. 2003. Techniques for Immune Function Analysis Application Handbook 1st Edition. BD Biosciences*. For this ELISA antibody pair, no cross-reactivity has been observed with the following: human TNF, TNFRI and TNFRII. This ELISA antibody pair shows a limited cross-reactivity with mouse Blys.

Product Notices

1. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Craxton A, Magaletti D, Ryan EJ, and Clark EA. Macrophage- and dendritic cell-dependent regulation of human B-cell proliferation requires the TNF family ligand BAFF. *Blood*. 2002; 101:4464-4471. (Biology)
Mackay F, Sarosi I, Xia X-Z, et al. Severe B cell hyperplasia and autoimmune disease in TALL-1 transgenic mice. *Proc Natl Acad Sci U S A*. 2000; 97:3370-3375. (Biology)
Mackay F, Shcnneider P, Rennett P, and Browning J. BAFF and APRIL: a tutorial on B cell survival. *Annu Rev Immunol*. 2003; 21:231-264. (Biology: ELISA)
Moore PA, Belvedere O, Orr A, et al. BlyS: member of the tumor necrosis factor family and B lymphocyte stimulator. *Science*. 1999; 285:260-263. (Biology)

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