

Anti-Human CD257 (BAFF, BlyS) Purified

Catalog Number: 14-9017

Also Known As: TNFSF13B, BLYS, TALL-1, TALL1, THANK

RUO: For Research Use Only

Product Information

Contents: Anti-Human CD257 (BAFF, BlyS) Purified

REF Catalog Number: 14-9017


Clone: 1D6

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1, κ


HLDA Workshop: N/A

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The 1D6 monoclonal antibody reacts with human BlyS (B lymphocyte stimulator), also known as BAFF (B cell activating factor from the TNF family), TALL-1 (TNF and apoptosis leukocyte-expressed ligand-1), THANK (TNF homologue that activates apoptosis, nuclear factor KappaB and c-Jun NH2-terminal kinase) and zTNF4. BlyS, a member of the TNF family, is a type II membrane protein that exists in both membrane-bound and soluble forms. Expression of membrane-bound BlyS on monocytes lineage is regulated by IFN-γ. BlyS acts as a potent B cell growth factor and costimulator of Ig production. BlyS transgenic mice develop severe B cell hyperplasia and autoimmune lupus-like disease characterized by the presence of autoantibodies against nuclear antigens and immune complexes deposited in the kidney. Data from animal models imply a role for BlyS in human autoimmune diseases. To date BCMA, TACI and BR3 have been identified as receptors for BlyS. APRIL, another TNF family member, and BlyS can form active heterotrimeric molecules when coexpressed and these circulating heterotrimers are present in serum samples from patients with systemic immune-based rheumatic diseases. Furthermore, it has been reported that BlyS and APRIL, share BCMA and TACI as their receptors.

Applications Reported

The 1D6 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistochemical staining.

Applications Tested

The 1D6 antibody has been tested by flow cytometric analysis of human BlyS transfected cells. This can be used at less than or equal to 1 μg per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 μL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

- Kayagaki, N., M. Yan, et al. 2002. BAFF/BlyS receptor 3 binds the B cell survival factor BAFF ligand through a discrete surface loop and promotes processing of NF-kappaB2. *Immunity* 17(4): 515-24.
- Roschke, V., S. Sosnovtseva, et al. 2002. BlyS and APRIL form biologically active heterotrimers that are expressed in patients with systemic immune-based rheumatic diseases. *J Immunol* 169(8): 4314-21.
- Hsu, B. L., S. M. Harless, et al. 2002. Cutting edge: BlyS enables survival of transitional and mature B cells through distinct mediators. *J Immunol* 168(12): 5993-6.
- Yan, M., J. R. Brady, et al. 2001. Identification of a novel receptor for B lymphocyte stimulator that is mutated in a mouse strain with severe B cell deficiency. *Curr Biol* 11(19): 1547-52.
- Hase H, Kanno Y, Kojima M, Hasegawa K, Sakurai D, Kojima H, Tsuchiya N, Tokunaga K, Masawa N, Azuma M, Okumura K, Kobata T. 2004. BAFF/BlyS can potentiate B-cell selection with the B-cell coreceptor complex. *Blood*. 103(6):2257-65.

Related Products

- 11-4011 Anti-Mouse IgG FITC
- 11-4317 Streptavidin FITC
- 12-4317 Streptavidin PE
- 13-4013 Anti-Mouse IgG Biotin (Polyclonal)
- 14-4714 Mouse IgG1 K Isotype Control Purified
- 17-4317 Streptavidin APC

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