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Anti-Human CD257 (BAFF, BLyS) FITC

Catalog Number: 11-9017
Also Known As: TNFSF13B, BLYS, TALL-1, TALL1, THANK
RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human CD257 (BAFF, BLyS) FITC
REF Catalog Number: 11-9017
Clone: 1D6
Concentration: 5 uL (0.5 ug)/test
Host/Isotype: Mouse IgG1, kappa
HLDA Workshop: N/A

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
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.

Applications Tested

This 1D6 antibody has been pre-titrated and tested by flow cytometric analysis of human BLyS transfected cells. This can be used at 5 µL (0.5 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 10^5 to 10^8 cells/test.

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

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.1)

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