

PE anti-human CD257 (BAFF, BLYS) Antibody

Catalog# / Size	318605 / 25 tests 318606 / 100 tests
Clone	T7-241
Regulatory Status	RUO
Other Names	BAFF, BLYS, TNFSF13b, B cell activating factor, tumor necrosis factor ligand superfamily 13B, B lymphocyte stimulator (BLYS), TNF and APOL-related leukocyte expressed ligand 1 (TALL1), TNF homolog that activates apoptosis, NF- κ B and JNK (THANK)
Isotype	Mouse IgG1, κ
Description	The T7-241 antibody recognizes human BAFF also known as B cell activating factor, tumor necrosis factor ligand superfamily 13B, B lymphocyte stimulator (BLYS), TNF and APOL-related leukocyte expressed ligand 1 (TALL1), and TNF homolog that activates apoptosis, NF- κ B, and JNK (THANK). BAFF is a type II transmembrane protein, and a member of the tumor necrosis factor ligand superfamily. BAFF can be proteolytically cleaved to form a soluble protein. BAFF, like other TNF ligand family members, forms homotrimers. The predicted molecular weight of a BAFF monomer is approximately 31 kD. BAFF is expressed on peripheral blood B and T lymphocytes, monocytes, macrophages, and dendritic cells and is upregulated by IFN- γ and downregulated by PMA/ionomycin treatment. The T7-241 antibody has been shown to be useful for flow cytometry and ELISA. BAFF stimulates B and T cell immunity and regulates humoral immunity by binding TACI and BCMA receptors; BAFF prevents apoptosis and promotes B cell survival by binding the BAFF-specific receptor (BAFFR/BR3). The T7-241 antibody has been shown to be useful for flow cytometry and ELISA.

Product Details

Verified Reactivity	Human, African Green, Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	recombinant human BAFF(TL7) protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Product Citations	1. Vanoni G, <i>et al.</i> 2021. eLife. 10:00. PubMed
RRID	AB_830752 (BioLegend Cat. No. 318605) AB_830753 (BioLegend Cat. No. 318606)

Antigen Details

Structure	Type II transmembrane protein, member of the tumor necrosis factor ligand superfamily. Can be proteolytically cleaved to form soluble protein. Forms homotrimers; predicted molecular weight of monomer approximately 31 kD.
Distribution	Peripheral blood B and T lymphocytes, monocytes, macrophages, dendritic cells. Upregulated by IFN- γ downregulated by PMA/ionomycin treatment
Function	Stimulates B and T cell immunity and regulates humoral immunity by binding TACI and BCMA receptors. Prevents apoptosis and promotes B cell survival by binding the BAFF-specific receptor (BAFFR/BR3).
Ligand/Receptor	BAFF binds to TACI (TNFRSF13B) and BCMA (TNFRSF17) as does the APRIL ligand. BAFF also binds to the BAFF-specific receptor (BAFFR/BR3)
Cell Type	B cells, Dendritic cells, Macrophages, Monocytes, T cells
Biology Area	Cell Biology, Immunology, Signal Transduction, Stem Cells, Costimulatory Molecules
Molecular Family	CD Molecules, Cytokines/Chemokines, Growth Factors, Soluble Receptors
Antigen References	<ol style="list-style-type: none">1. Schneider P, <i>et al.</i> 1999. <i>J. Exp. Med.</i> 189:1747.2. Moore PA, <i>et al.</i> 1999. <i>Science</i> 285:260.3. Shu HB, <i>et al.</i> 1999. <i>J. Leuko. Biol.</i> 65:680.4. Yu G, <i>et al.</i> 2000. <i>Nat. Immunol.</i> 1:252.5. Oren DA, <i>et al.</i> 2002. <i>Nat. Struct. Biol.</i> 9:288.
Gene ID	10673

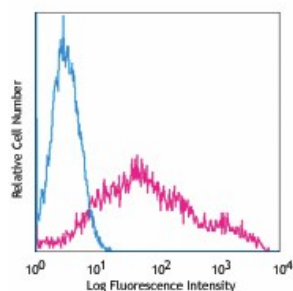
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD257 (BAFF, BLYS), PE anti-human CD257 (BAFF, BLYS)

Product Data



IFN- γ stimulated (1-day) THP-1 (human monocytic cell line) stained with T7-241 PE

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