

TotalSeq™-C0863 anti-human CD257 (BAFF, BLYS) Antibody

Catalog# / Size	366513 / 10 µg
Clone	1D6
Regulatory Status	RUO
Workshop	HCDM listed
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-κB and JNK (THANK)
Isotype	Mouse IgG1, κ
Barcode Sequence	CAGAGCACCCATTAA
Description	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, activates apoptosis, NF-κB, and JNK (THANK). BAFF is a type II transmembrane protein and is 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. It is upregulated by IFN-γ and downregulated by PMA/ionomycin treatment.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human CD257 transfected murine cell line.
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x

[Genomics Chromium System and Reagents](#)) and sequencer (e.g. Illumina analyzers) are required. Please contact [technical support](#) for more information, or visit biolegend.com/totalseq.

The barcode flanking sequences are CCGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

Application References

1. Hase H, *et al.* 2004. *Blood* 6:2257. (IHC)

(PubMed link indicates BioLegend citation)

RRID AB_2832723 (BioLegend Cat. No. 366513)

Antigen Details

Structure	Type II transmembrane protein and is a member of the tumor necrosis factor ligand superfamily. It can be proteolytically cleaved to form a soluble protein and it forms homotrimers. The predicted molecular weight of monomer is approximately 31 kD.
Distribution	Peripheral blood B and T lymphocytes, monocytes, macrophages, and dendritic cells. Upregulated by IFN- γ and is downregulated by PMA/ionomycin treatment.
Function	Stimulates B and T cell immunity, regulates humoral immunity by binding TACI and BCMA receptors, and 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 well as 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, Costimulatory Molecules, Immunology, Signal Transduction, Stem Cells
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

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

Other Formats

Purified anti-human CD257 (BAFF, BLYS), Biotin anti-human CD257 (BAFF, BLYS), PE anti-human CD257 (BAFF, BLYS), APC anti-human CD257 (BAFF, BLYS), APC/Cyanine7 anti-human CD257 (BAFF, BLYS), TotalSeq™-C0863 anti-human CD257 (BAFF, BLYS)

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