

## Biotin anti-human CD257 (BAFF, BLYS) Antibody

<b>Catalog# / Size</b>	366504 / 100 µg
<b>Clone</b>	1D6
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	HCDM listed
<b>Other Names</b>	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)
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human CD257 transfected murine cell line.
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤0.125 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application References</b> (PubMed link indicates BioLegend citation)	1. Hase H, <i>et al.</i> 2004. <i>Blood</i> 6:2257. (IHC)
<b>RRID</b>	AB_2565622 (BioLegend Cat. No. 366504)

### Antigen Details

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<b>Structure</b>	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.
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<b>Distribution</b>	Peripheral blood B and T lymphocytes, monocytes, macrophages, and dendritic cells. Upregulated by IFN- $\gamma$ and is downregulated by PMA/ionomycin treatment.
<b>Function</b>	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).
<b>Ligand/Receptor</b>	BAFF binds to TACI (TNFRSF13B) and BCMA (TNFRSF17) as well as the APRIL ligand. BAFF also binds to the BAFF-specific receptor (BAFFR/BR3).
<b>Cell Type</b>	B cells, Dendritic cells, Macrophages, Monocytes, T cells
<b>Biology Area</b>	Cell Biology, Costimulatory Molecules, Immunology, Signal Transduction, Stem Cells
<b>Molecular Family</b>	CD Molecules, Cytokines/Chemokines, Growth Factors, Soluble Receptors
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>Schneider P, <i>et al.</i> 1999. <i>J. Exp. Med.</i> 189:1747.</li> <li>Moore PA, <i>et al.</i> 1999. <i>Science</i> 285:260.</li> <li>Shu HB, <i>et al.</i> 1999. <i>J. Leuko. Biol.</i> 65:680.</li> <li>Yu G, <i>et al.</i> 2000. <i>Nat. Immunol.</i> 1:252.</li> <li>Oren DA, <i>et al.</i> 2002. <i>Nat. Struct. Biol.</i> 9:288.</li> </ol>
<b>Gene ID</b>	<a href="#">10673</a>

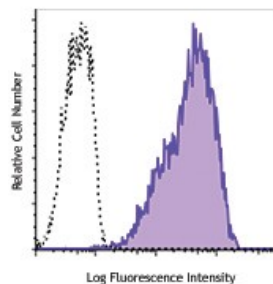
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## 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)

## Product Data



Human CD257-transfected bovine coronary artery endothelial cell line (B300) was stained with biotinylated anti-human CD257 (clone 1D6) (filled histogram) or biotinylated mouse IgG1,  $\kappa$  isotype control (open histogram), followed by SAV-PE.

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