

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human APRIL/TNFSF13 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse APRIL, recombinant human (rh) BAFF, rhEDA-A2, rhEDA, rhFas Ligand, rhLIGHT, rhLT a1/b2, rhLT a2/b1, rhOX40 Ligand, rhTNF alpha, rhTRAIL, rhTRANCE, rh4-1BB Ligand, rhVEGI, or rhGITR Ligand is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 670840
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293EBNA-derived recombinant human APRIL/TNFSF13 Ala105-Leu250 Accession # O75888
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

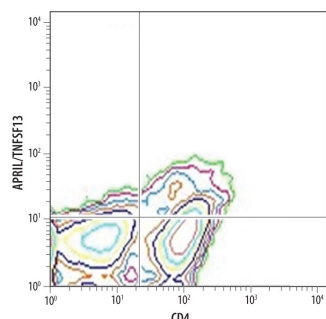
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CytoF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

## DATA

### Intracellular Staining by Flow Cytometry



**Detection of April in Human Blood Monocytes by Flow Cytometry.** Human peripheral blood monocytes stimulated with 5 ng/mL Recombinant Human IL-4 (Catalog # [204-IL](#)) and 10 µg/mL Goat Anti-Human IFN-gamma Antigen Affinity-purified Polyclonal Antibody (Catalog # [AF-285-NA](#)) for three days followed by a 3 hour incubation with monensin were stained with Mouse Anti-Human APRIL/TNFSF13 Monoclonal Antibody (Catalog # MAB8843) followed by Phycoerythrin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # [F0102B](#)) and Mouse Anti-Human CD4 APC-conjugated Monoclonal Antibody (Catalog # [FAB3791A](#)). Quadrant markers were set based on control antibody staining (Catalog # [MAB004](#)). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

APRIL (a proliferation inducing ligand), also known as TNFSF13, TALL2, and TRDL1, is a member of the TNF ligand superfamily. It is synthesized as a 32 kDa type II transmembrane protein which is cleaved by furin in the Golgi to release a 17 kDa soluble molecule. Secreted APRIL consists almost entirely of a single TNF homology domain. Little or no transmembrane APRIL is expressed on the cell surface. Alternate splicing generates isoforms with short deletions at the N- or C-terminus. Both APRIL and the closely related protein BAFF signal through the TNF superfamily receptors TACI and BCMA to promote cellular proliferation and protect from apoptosis. APRIL can form bioactive heterotrimers with BAFF. A bioactive cell surface-expressed protein known as TWEPRIL consists of the intracellular domain, transmembrane segment, and stalk region of TWEAK fused to the TNF homology domain of APRIL. Human APRIL shares 85% amino acid sequence identity with mouse and rat APRIL.