

#### 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>	N/A N/A
<b>Immunogen</b>	Human embryonic kidney cell line HEK293EBNA-derived recombinant human APRIL/TNFSF13 Ala105-Leu250 Accession # O75888
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

	Recommended Concentration	Sample
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Human peripheral blood monocytes, treated with Recombinant Human IL-4 (Catalog # 204-IL), Goat Anti-Human IFN-γ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-285-NA) and monensin, fixed with paraformaldehyde and permeabilized with saponin

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

#### 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.

#### PRODUCT SPECIFIC NOTICES

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