

## DESCRIPTION

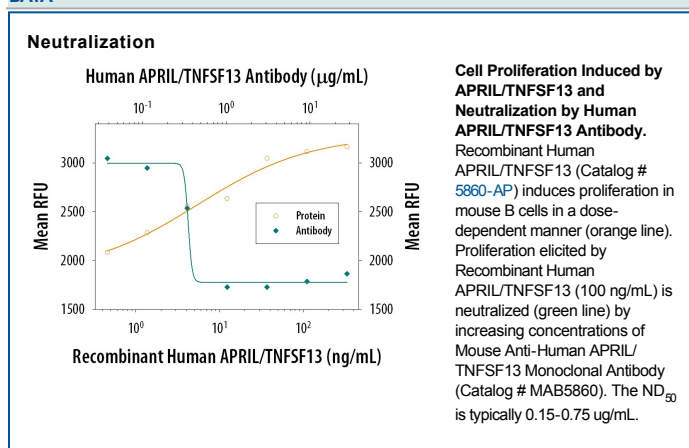
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human APRIL/TNFSF13 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse APRIL is observed, and no cross-reactivity with recombinant human BAFF is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 670820
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonic kidney cell line HEK293-derived recombinant human APRIL/TNFSF13 Ala105-Leu250 Accession # O75888
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

## 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.

**Neutralization** Measured by its ability to neutralize APRIL/TNFSF13-induced proliferation in mouse B cells. The Neutralization Dose (ND<sub>50</sub>) is typically 0.15-0.75 µg/mL in the presence of 100 ng/mL Recombinant Human APRIL/TNFSF13.

## DATA



## 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.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <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.