

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human APRIL/TNFSF13 in ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant mouse (rm) APRIL, recombinant human (rh) BAFF, rhTWEAK, rmTWEAK, rhTACI, or rhBCMA is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 540203
Purification	Protein A or G purified from ascites
Immunogen	Mouse myeloma cell line NS0-derived recombinant human APRIL/TNFSF13 Lys110-Leu250 Accession # Q8NFH7
Formulation	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.

Human APRIL/TNFSF13 Sandwich Immunoassay	Reagent
ELISA Capture	2-8 µg/mL
ELISA Detection	0.5-2.0 µg/mL
Standard	Human APRIL/TNFSF13 Biotinylated Antibody (Catalog # BAM8841) Recombinant Human APRIL/TNFSF13 (Catalog # 884-AP)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.