

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Monoclonal Mouse IgG ₁ Clone # 670820
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell line HEK293-derived recombinant human APRIL/TNFSF13 Ala105-Leu250 Accession # O75888
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

Neutralization Optimal dilution of this antibody should be experimentally determined.

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.

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