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TNFSF13
Recombinant Human Multimeric APRIL

Catalog No.	CRH025	**Quantity:**	10 µg

Alternate Names: Tumor necrosis factor ligand superfamily member 13, A proliferation-inducing ligand, APRIL, TNF- and APOL-related leukocyte expressed ligand 2, TALL-2, TNF-related death ligand 1 , TRDL-1, CD256, Adiponectin, Adipocyte complement-related 30 kDa protein, ACRP30

Description: APRIL is a cytokine that belongs to the TNF superfamily and binds to TACI and BCMA. It is implicated in the regulation of tumor cell growth, is involved in monocyte/macrophage-mediated immunological processes and functions as an important survival factor for plasmablasts and bone marrow plasma cells. Multimeric APRIL is a high activity construct in which two trimeric APRIL ligands are artificially linked via the collagen domain of ACRP30. This construct very effectively stimulates proliferation B cell. A basic amino acid sequence (QKQKKQ) close to the N-terminus of APRIL is required for binding to negatively charged sulfated glycosaminoglycan side chains of proteoglycans. Proteoglycans mediate binding of APRIL to tumor cells as well as primary lymphoid cells.

Human APRIL aa 88-233 is fused at the N-terminus to human collagen domain of ACRP30 (aa16-108) and a FLAG tag.

Concentration: 0.1 mg/ml after reconstitution

Gene ID: Human APRIL 8741; Human ACRP30 (adiponectin): 9370

UniProt ID: Human APRIL: O75888
Human ACRP30 (adiponectin): Q15848

Source: HEK 293 cells

Molecular Weight: ~34 kDa by SDS-PAGE

Formulation: Lyophilized from PBS.

Purity: ≥95% (SDS-PAGE)

Endotoxin Level: <0.02 EU/µg purified protein as determined by LAL test (Lonza).

Specificity: Binds to human and mouse BCMA and TACI. Binds to proteoglycans.

Biological Activity: Stimulates B cell proliferation.

Amino Acid Sequence: The extracellular domain of human APRIL (aa 88-233) is fused at the N-terminus to human ACRP30 *headless* (aa 16-108) and a FLAG-tag.

Reconstitution: Reconstitute with 100µl sterile water.

Storage & Stability: Store at -20°C to -80°C for up to 1 year. After reconstitution, prepare aliquots and store at -20°C to -80°C. PBS containing at least 0.1% BSA or HSA should be used for further dilutions. **Avoid repeated freeze-thaw cycles.**

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