

Human APRIL Protein; hFc Tag

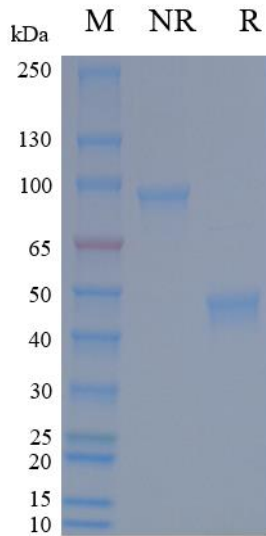
Product Information

Product Name	Human APRIL Protein; hFc Tag
Storage temp	Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	GM-87743RP-100 / 100 μg GM-87743RP-1000 / 1 mg

Protein Information

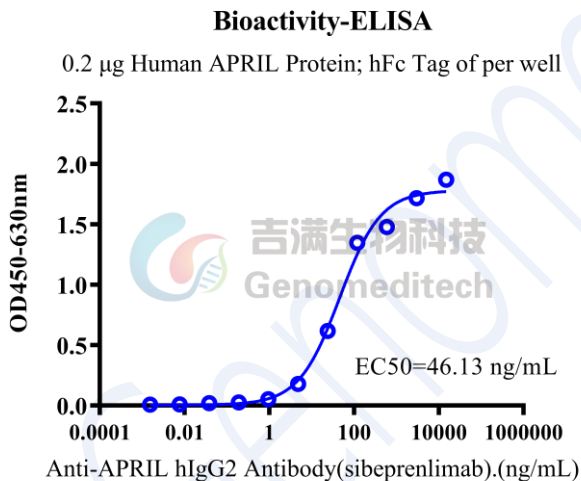
Alternative Names	APRIL, TNFSF13, TALL-2, TRDL-1, CD256, TALL2, ZTNF2
Source	Human APRIL Protein; hFc Tag (GM-87743RP) is expressed from human 293 cells (HEK-293). It contains AA Ala 105 – Leu 250 (Accession # O75888-1). This protein carries a hFc tag at the N-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	42.1 KDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	APRIL is a type II TNF superfamily membrane protein encoded by TNFSF13 (also TNFSF13A). It is expressed in various immune and some non-hematopoietic cells. It exists in membrane-bound and soluble forms (soluble via shedding). APRIL promotes B cell survival, maturation, differentiation, and immunoglobulin production; its dysregulation is linked to autoimmunity and certain hematologic cancers. APRIL binds primarily to TACI and BCMA receptors, activating canonical and noncanonical NF-κB and MAPK pathways. This upregulates anti-apoptotic genes (e.g., BCL2 family) and plasma cell differentiation factors, supporting long-lasting humoral responses. APRIL can cooperate with BAFF to modulate signaling. Dysregulated APRIL–receptor signaling is associated with autoimmunity, making it a therapeutic target in diseases like SLE and monoclonal gammopathies.

SDS-PAGE

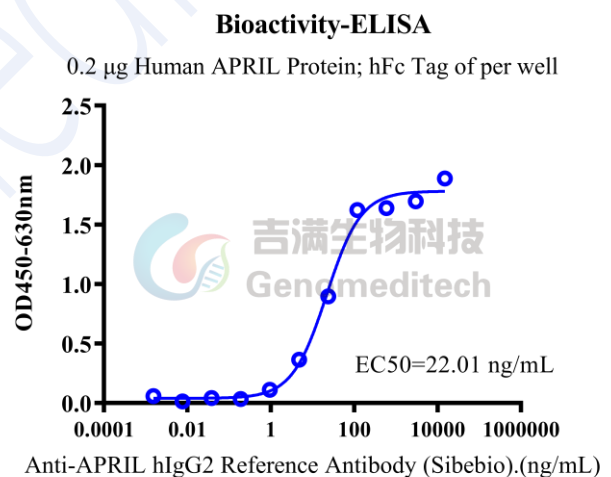


On SDS-PAGE under non-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

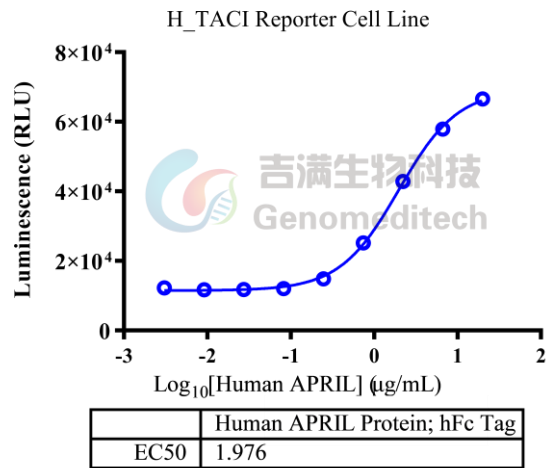


Human APRIL Protein; hFc Tag (Catalog # GM-87743RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-APRIL hIgG2 Antibody (sibeprenlimab) (Catalog # GM-87877AB) were added.



Human APRIL Protein; hFc Tag (Catalog # GM-87743RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-APRIL hIgG2 Reference Antibody (Sibebio) (Catalog # GM-88014MAB) were added.

Bioactivity-CELL BASE



Human APRIL Protein; hFc Tag (Catalog # GM-87743RP)
was added into H_TACI Reporter Cell Line (Catalog # GM-C35041) and stimulates related signals.