

Human APRIL/TNFSF13 Protein (active trimer)



Cat. No. APR-HM113

Description	
Source	Recombinant Human APRIL/TNFSF13 Protein is expressed from HEK293 with His tag and Flag tag at the N-terminus. It contains Ala105-Leu250.
Accession	O75888-1
Molecular Weight	The protein has a predicted MW of 18.16 kDa. Due to glycosylation, the protein migrates to 23-28 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

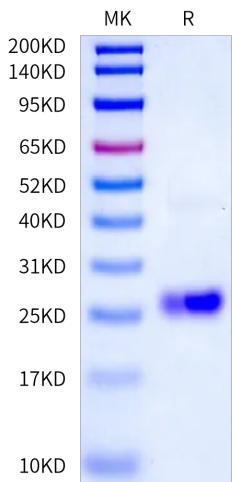
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

The APRIL (a proliferation-inducing ligand), also known as TNFSF13, TALL2, TRDL1, and CD256, is a member of the TNF ligand superfamily. Both APRIL and its close relative BAFF bind and signal through the TNF superfamily receptors TACI and BCMA, while BAFF additionally functions through BAFF R.

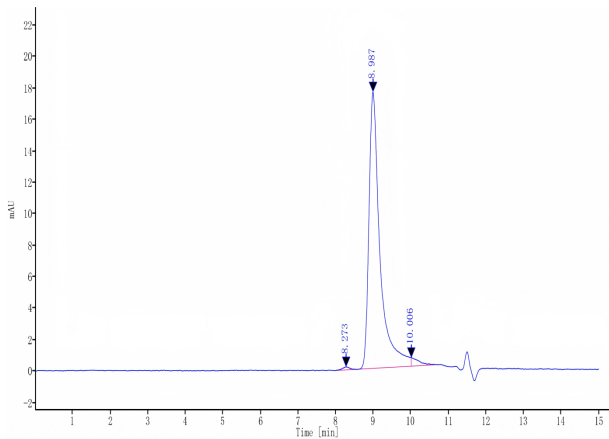
Assay Data

Bis-Tris PAGE



Human APRIL on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human APRIL is greater than 95% as determined by SEC-HPLC.

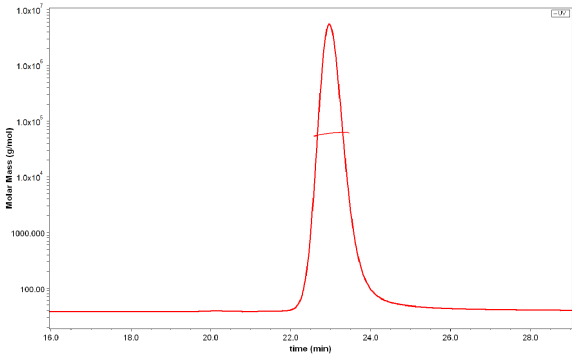
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Assay Data

SEC-MALS

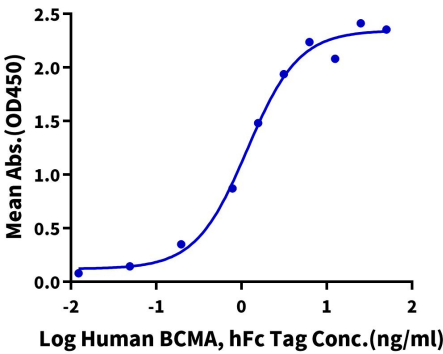


The purity of Human APRIL is greater than 95% and the molecular weight of this protein is around 55-70 kDa as determined by SEC-MALS.

ELISA Data

Human APRIL, His Tag ELISA

0.01µg Human APRIL, His Tag Per Well

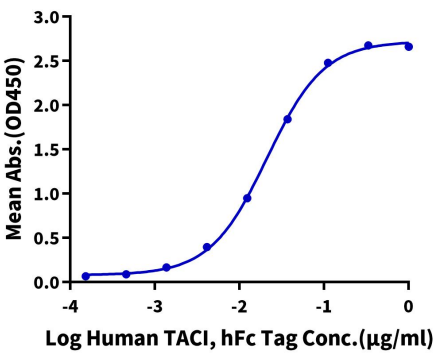


Immobilized Human APRIL, His Tag at 0.1µg/ml (100µl/well) on the plate. Dose response curve for Human BCMA, hFc Tag (Cat. BCM-HM217) with the EC50 of 1.2ng/ml determined by ELISA.

ELISA Data

Human APRIL, His Tag ELISA

0.2µg Human APRIL, His Tag Per Well



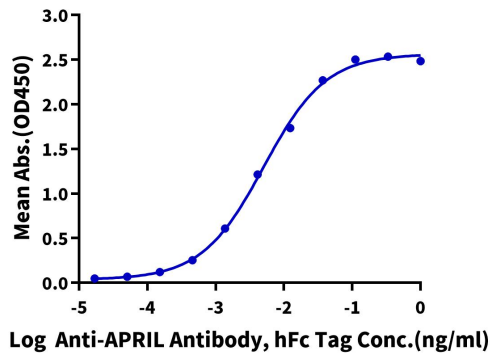
Immobilized Human APRIL, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human TACI, hFc Tag (Cat. TAC-HM213) with the EC50 of 21.1ng/ml determined by ELISA.

ELISA Data

Assay Data

Human APRIL, His Tag ELISA

0.02µg Human APRIL, His Tag Per Well



Immobilized Human APRIL, His Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Anti-APRIL Antibody, hFc Tag with the EC50 of 5.1ng/ml determined by ELISA.