

# Anti-APRIL hIgG2 Reference Antibody (Sibebio)

## Product Information

**Product Name** Anti-APRIL hIgG2 Reference Antibody (Sibebio)  
**Storage temp.** Store at 2-8°C short term (1-2 weeks). Store at  $\leq -20^{\circ}\text{C}$  long term. Avoid repeated freeze-thaw.

**Catalog# / Size**  
**GM-88014MAB-1mg / 1 mg**  
**GM-88014MAB-5mg / 5 mg**  
**GM-88014MAB-25mg / 5 mg\*5 vials**  
**GM-88014MAB-50mg / 50 mg**  
**GM-88014MAB-100mg / 50 mg\*2 vials**

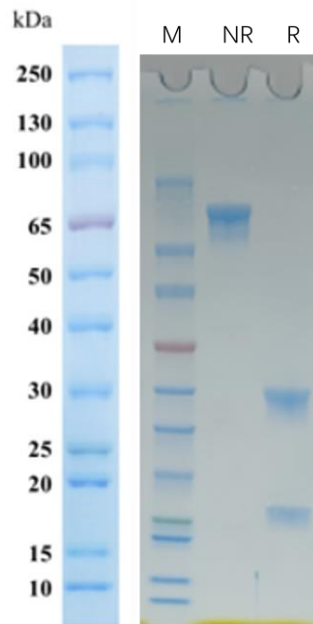
## Antibody Information

**Expression System** CHO  
**Aggregation** < 5% as determined by SEC-HPLC  
**Purity** > 95% as determined by SDS-PAGE  
**Sterility** 0.22  $\mu\text{m}$  Filtered  
**Clone** sibeprenlimab  
**Source/Isotype** Human IgG2 Kappa  
**Application** Bioactivity-ELISA; Assay  
**Specificity** Detects APRIL  
**Gene** APRIL  
**Other Names** APRIL, TNFSF13, TALL-2, TRDL-1, CD256, TALL2, ZTNF2  
**Gene ID** 8741 (human)  
**Background**  
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- $\kappa\text{B}$  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.  
**Formulation** Phosphate-buffered solution, pH 7.2-7.4.  
**Endotoxin** < 1 EU/mg, determined by LAL gel clotting assay

Version:3.1

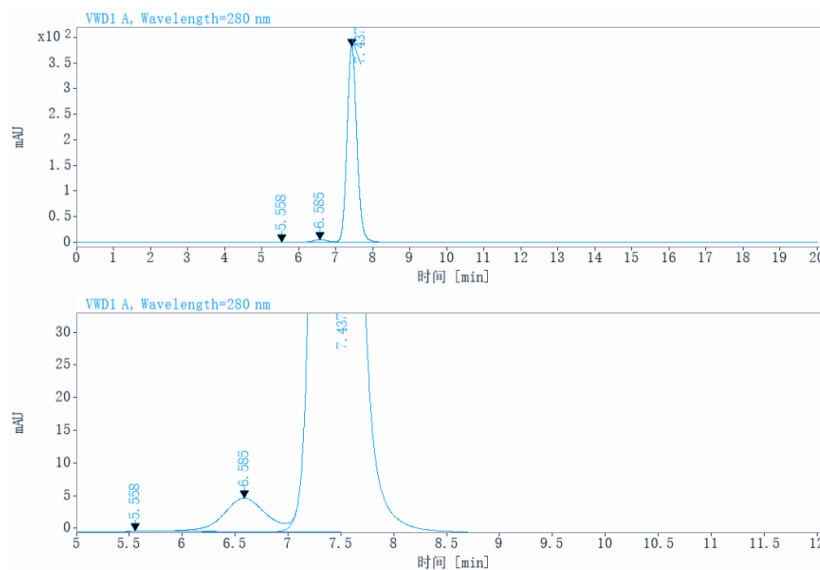
## Data Examples

### SDS-PAGE



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

### SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC.

## 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 Reference Antibody (Sibebio) (Catalog # GM-88014MAB) were added.

### Bioactivity-ELISA

0.2 µg Human APRIL Protein; hFc Tag of per well

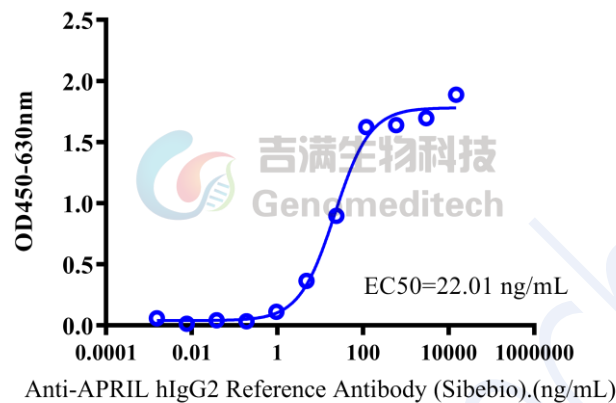


Fig. ELISA

## Assay

Inhibition of Membrane Bound H<sub>2</sub>APRIL-induced reporter activity by Sibeprenlimab. Serial dilutions of the Anti-APRIL hIgG2 Reference Antibody (Sibebio)(Cat. GM-88014MAB) were incubated with 1.5E4 cells/well of the Membrane Bound H<sub>2</sub>APRIL(Trimer) HEK-293 Cell Line (Cat. GM-C40503) in a 96-well plate for 1 hour in assay buffer (RPMI 1640+1% FBS+1% P.S). Subsequently, the H<sub>2</sub>TACI Reporter Cell Line (Cat. GM-C35041) at a concentration of 1E5 cells/well was added, and the co-culture proceeded for an additional 6 hours. Firefly luciferase activity was then measured using the Luciferase Reporter Assay Kit (Genomeditech) (left Y-axis, relative luminescence units), with inhibition percentages shown on the right Y-axis. Data are shown by drug mass concentration.

H<sub>2</sub>TACI Reporter Cell Line  
Membrane Bound H<sub>2</sub>APRIL(Trimer) HEK-293 Cell Line

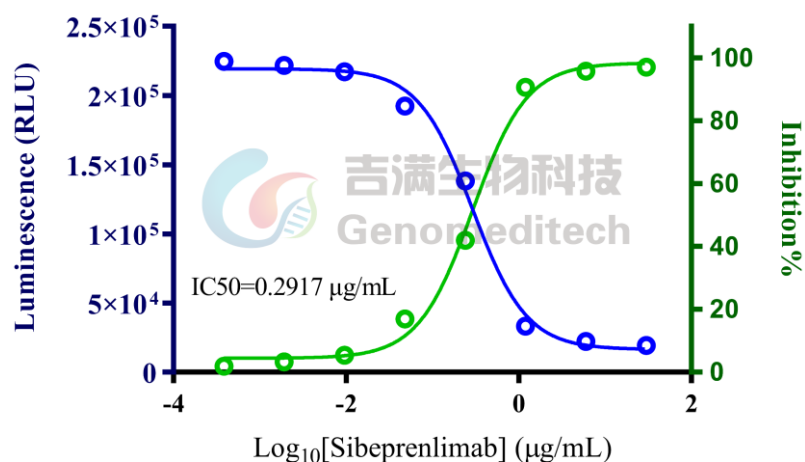


Fig. Assay

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