Recombinant Human CD19 Protein

ABclonal

www.abclonal.com

Catalog No.: RP01307 Recombinant

Sequence Information

Species Gene ID **Swiss Prot** Human 930 P15391-1

Tags

C-His

Synonyms B4;CVID3;CD19

Product Information

Purification HEK293 cells

≥ 90 % as determined by SDS-PAGE.

Calculated MW Observed MW

30.95 kDa 55 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

6	400-999-6126
\bowtie	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

Background

B-lymphocyte antigen CD19 is also known as CD19 (Cluster of Differentiation 19), is a single-pass type I membrane protein which contains two Ig-like C2-type (immunoglobulin-like) domains. CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. It primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. Upon activation, the cytoplasmic tail of CD19 becomes phosphorylated, which leads to binding by Srcfamily kinases and recruitment of PI-3 kinase. As on T cells, several surface molecules form the antigen receptor and form a complex on B lymphocytes. The (almost) B cellspecific CD19 phosphoglycoprotein is one of these molecules. The others are CD21 and CD81. These surface immunoglobulin (slg)-associated molecules facilitate signal transduction. On living B cells, anti-immunoglobulin antibody mimicking exogenous antigen causes CD19 to b

Basic Information

Description

Recombinant Human CD19 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Pro20-Lys291) of human CD19 (Accession #NP 001761.3) fused with an 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA.Immobilized Human CD19 at 2 μg/mL (100 μL/well) can bind CD19 Rabbit pAb with a linear range of 0.12-3.53ng/mL.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

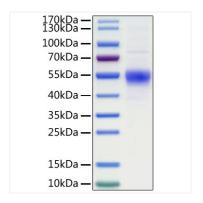
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

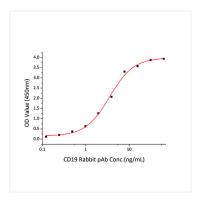
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human CD19 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human CD19 at $2\mu g/mL$ (100 $\mu L/well$) can bind CD19 Rabbit pAb with a linear range of 0.12-3.53ng/mL.