

RP00585

Leader in Biomolecular Solutions for Life Science



Recombinant Human CD19 Protein

Catalog No.: RP00585 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells930		P15391-1

Tags

C-His

Synonyms

CD19; B4; CVID3; Leu-12; MGC12802

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact



www.abclonal.com

Background

CD19 is a 95 kDa transmembrane glycoprotein that plays a central role in B cell activation and humoral immune responses. Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens. Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca²⁺ stores.

Basic Information

Description

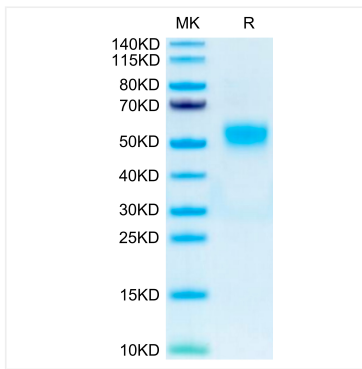
Recombinant Human CD19 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Pro20-Lys291) of Human CD19 (Accession #P15391-1) fused with a C-His tag at the C-terminus.

Bio-Activity

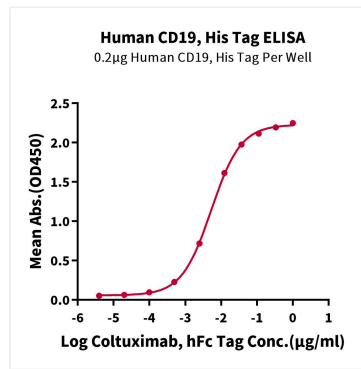
Storage

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.

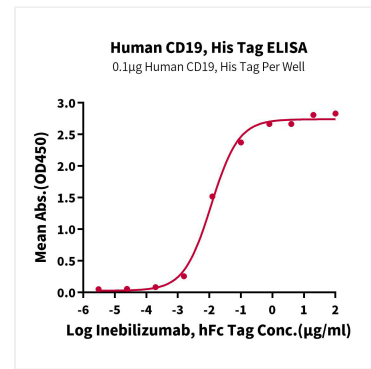
Validation Data



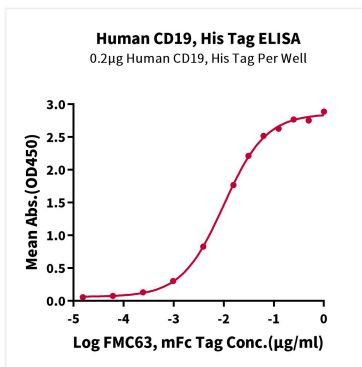
Human CD19 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



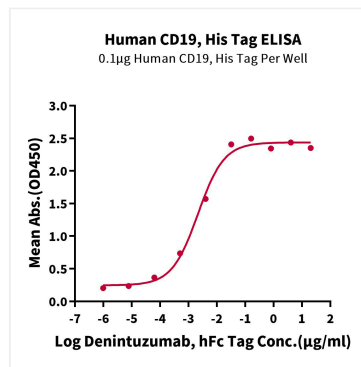
Immobilized Human CD19, His Tag at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for Coltuximab, hFc Tag with the EC_{50} of 5.3ng/mL determined by ELISA (QC Test).



Immobilized Human CD19, His Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Inebilizumab, hFc Tag with the EC_{50} of 11.5ng/mL determined by ELISA.



Immobilized Human CD19, His Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for FMC63, mFc Tag with the EC_{50} of 10.0ng/mL determined by ELISA (QC Test).



Immobilized Human CD19, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Denintuzumab, hFc Tag with the EC_{50} of 2.1ng/mL determined by ELISA.