

PRODUCT INFORMATION

CD19 **Target**

Synonyms CD19,B4,CVID3,MGC12802

Recombinant human CD19 Protein with C-Description

terminal 10×His tag

Delivery In Stock **Uniprot ID** P15391 **Expression Host HEK293**

Tag C-10×His tag

Molecular

Purity

Background

CD19(Pro20-Lys291) 10×His tag Characterization

The protein has a predicted molecular mass of **Molecular Weight** 31.5 kDa after removal of the signal peptide.

The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation & Reconstitution

lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient temperature.

This gene encodes a member of the

immunoglobulin gene superfamily. Expression of this cell surface protein is restricted to B cell lymphocytes. This protein is a reliable marker for pre-B cells but its expression diminishes during terminal B cell differentiation in antibody secreting plasma cells. The protein has two Nterminal extracellular Ig-like domains separated by a non-Ig-like domain, a hydrophobic

transmembrane domain, and a large C-terminal

cytoplasmic domain. This protein forms a complex with several membrane proteins including complement receptor type 2 (CD21) and tetraspanin (CD81) and this complex reduces the threshold for antigen-initiated B cell activation.

Activation of this B-cell antigen receptor complex activates the phosphatidylinositol 3-kinase signalling pathway and the subsequent release of intracellular stores of calcium ions. This protein is a target of chimeric antigen receptor (CAR) T-cells used in the treatment of lymphoblastic leukemia. Mutations in this gene are associated with the disease common variable immunodeficiency 3 (CVID3) which results in a failure of B-cell differentiation and impaired secretion of immunoglobulins. CVID3 is characterized by hypogammaglobulinemia, an inability to mount an antibody response to antigen, and recurrent bacterial infections. Alternative splicing results in

multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2020]

Usage Research use only

Conjugate Unconjugated

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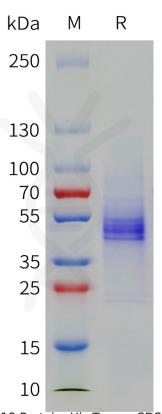


Figure 1. Human CD19 Protein, His Tag on SDS-PAGE under reducing condition.

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