

## Recombinant Cynomolgus CD19 Protein, Fc-tagged

**Cat. No.** CD19-315C    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Cynomolgus CD19 (XP\_005591597.1) (Met1-Lys292) was expressed with the Fc region of human IgG1 at the C-terminus. Cynomolgus and Rhesus CD19 sequences are identical.

**Species**      Cynomolgus

**Source**      HEK293

**ProteinLength**      Met1-Lys292

**Description**      The cluster of differentiation (CD) system is commonly used as cell markers in immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which associate with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal processing but have other functions such as cell adhesion. Cluster of differentiation 19 (CD19) is a member of CD system. CD19 is a cell surface molecule that associates with the antigen receptor of B-cells. This results in a decrease in threshold for antigen receptor-dependent stimulation. A simplified view holds that the ability of B-cells to respond to the various antigens in a specific and sensitive manner is achieved in the presence of low-affinity antigen receptors. CD19 primarily acts as a B-cell coreceptor in conjunction with CD21 and CD81. The formation of the receptor complex is induced

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated and bind to slg.

**Predicted N Terminal** Gln 21

**Form** Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Molecular Mass** The recombinant cynomolgus CD19 consists of 513 amino acids and predicts a molecular mass of 57 kDa.

**Endotoxin** < 1.0 EU per µg protein as determined by the LAL method.

**Purity** > 95 % as determined by SDS-PAGE.

**Storage** Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Official Symbol** [CD19](#)

**Synonyms** CD19;B-lymphocyte antigen CD19

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