

# Recombinant Monkey CD19 Protein, Fc-tagged, Alexa Fluor 647 conjugated

**Cat. No.** CD19-315CAF647    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Alexa Fluor 647 conjugated recombinant Monkey CD19 (XP\_005591597.1) (Met1-Lys292) was expressed with the Fc region of human IgG1 at the C-terminus. Monkey and Rhesus CD19 sequences are identical.

**Species**      Monkey

**Source**      HEK293

**ProteinLength**      Met1-Lys292, 513

**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 signaling 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 assembles 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

 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

conjunction with CD21 and CD81. The formation of the receptor complex is induced by antigen and CD19, induced by exogenous antigen, has been found cytoplasmic tail phosphorylated and bind to slg.

**Form** Lyophilized

**Molecular Mass** 57 kDa

**N-terminal Sequence Analysis** Gln 21

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

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

**Characteristic**  
 Disulfide-linked homodimer  
 Labeled with Alexa Fluor 647 via amines  
 Excitation = 650 nm  
 Emission = 668 nm

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

**Storage Buffer**  
 Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.

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

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**Conjugation** Alexa Fluor 647

## GENE INFORMATION

**Gene Name** CD19 CD19 molecule [ *Macaca mulatta* (Rhesus monkey) ]

**Official Symbol** CD19

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

**Gene ID** 705211

**mRNA Refseq** XM\_001103043

**Protein Refseq** XP\_001103043

**UniProt ID** F7F486

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