Recombinant Monkey CD19 Protein, Fc-tagged, Alexa Fluor 555 conjugated

Cat. No. CD19-315CAF555 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Alexa Fluor 555 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 immunophynotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules which ass centigradeiating 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 pr centigradeess 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 descent 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 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 sIg.
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 555 via amines With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.
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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Conjugation	Alexa Fluor 555

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA