

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 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

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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 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.

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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

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