

## InnoCyto Inc.

15375 Barranca Pkwy, Suite I-103 Irvine, CA 92618

## **Technical Data Sheet**

APC Conjugated Human CD19 Protein (C-Fc)

Catalog Number: 807403, 807404

Size: 25 ug, 100 ug

Target Name: CD19, B4, CVID3

Regulatory Status: RUO

#### **Product Details**

Application: FC
Format: Liquid, APC
Expression Host: CHO

Species: Human

Sources: Recombinant Human CD19 Protein (Glu21-Lys291) with C-terminus Fc-tag is expressed in

CHO cell and conjugated to APC. **Accession Number:** P15391

Molecular Weight: The protein has a predicted molecular weight of 56.2 kDa. Under DTT-reducing

conditions, it migrates at approximately 70-80 kDa on SDS-PAGE prior to conjugation.

Affinity Tag: C-Fc

Formulation: 1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein

Endotoxin level: Not tested

Protein Concentration: 25μg size is bottled at 0.1mg/mL concentration. 100 μg size is bottled at lot

specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial may be stored at

2-8°C for up to six months.

### **Background Information**

Cluster of Differentiation 19 (CD19) is a 95 kDa type I transmembrane glycoprotein and a member of the immunoglobulin superfamily, expressed on B cells from the early pro-B stage through to activated B blasts, but absent on plasma cells. It is also present on follicular dendritic cells. CD19 functions as a crucial co-receptor in B cell signaling by forming a complex with CD21 (CR2) and CD81 (TAPA-1), which enhances the sensitivity of B cells to antigens by lowering the activation threshold. Upon antigen binding, CD19 is phosphorylated, recruits Src-family kinases and PI3K, and internalizes with surface immunoglobulin (slg), promoting downstream signal transduction necessary for B cell development, activation, and differentiation. Mutations in CD19 are linked to immunodeficiency syndromes with impaired antibody production, and CD19 is a key target in immunotherapy, particularly CAR-T cell treatment of B-cell malignancies.

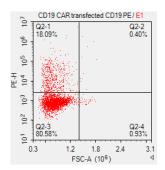
#### **Product Data**



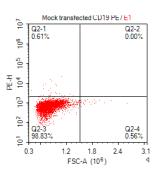
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## A: CD19 CAR-transfected Stained with APC-CD19-Fc



B: Mock-transfected Stained with APC-CD19-Fc



CHO cells transfected with either CD19 CAR or Mock plasmid were stained with APC conjugated CD19 (C-Fc) protein at 1ug\_test