

For Research Use Only

FcZero-CAR™ Biotin-CD19 CAR Detection Reagent, Human

Catalog Number: Biotin-CAR001



Basic Information

Catalog Number:

Biotin-CAR001

Concentration:

500 ug/ml

Source:

CHO cells-derived Human CD19 protein (20-291 aa) (Accession #P15391) with a mutated Human IgG1 FcZero backbone

GeneID (NCBI):

930

UNIPROT ID:

P15391

Isotype:

Recombinant Human IgG1

Conjugation:

Site specific conjugated with Biotin

Target Cell:

CD19-specific CAR-T cells, CD19-specific CAR-NK cells

Recommended Dilutions:

FC: 0.25 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission Maxima

Wavelengths:

-

Applications

Tested Applications:

FC

Species Specificity:

Human

Positive Controls:

FC : Transfected HEK-293T cells,

Information

CD19 is a 95 kDa type I transmembrane glycoprotein belonging to the immunoglobulin superfamily (PMID: 2472450). It is expressed by B cells and follicular dendritic cells. CD19 is up-regulated at the step of B-lineage commitment during the differentiation of the hematopoietic stem cell, it remains on during subsequent stages of differentiation until finally down-regulated during terminal differentiation into plasma cells (PMID: 8528044). CD19 is involved in B cell development, activation and differentiation. It is the dominant component for the signaling complex on B cells that includes CD21 (CR2), CD81 (TAPA-1) and CD225 and acts as a critical co-receptor for BCR signal transduction (PMID: 23210908).

Storage

Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Buffer:

50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin 300, pH 7.3.

For technical support and original validation data for this product please contact:

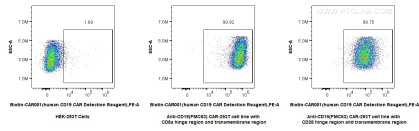
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1x10⁶ HEK-293T cells or anti-CD19 (FMC63) CAR pool with CD28 or CD8 hinge region and transmembrane region transfected HEK-293T cells were surface stained with 0.25 ug FcZero-CAR™ Biotin-CD19 CAR Detection Reagent, Human (Biotin-CAR001) and PE Streptavidin (Cat.No. PF00021). Cells were not fixed.