



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant sfGFP-SJ25C1 Binder Protein
Catalog Number: HRP-2971
Manufacturer: LD Biopharma, Inc. USA

Introduction

Anti-human CD19 specific single chain antibody (scFv) derived CAR-T therapy has been widely used in both basic research and clinical applications. One of the most commonly used anti-CD19 scFv is derived from hybridoma clone SJ25C1. To develop a specific assay for monitoring its expression after lentivirus mediated host cell transduction, such as human T cells, we have identified a specific SJ25C1 scFv protein sequence binder. It is fused with superGFP protein as SJ25C1 scFv detection reagent in cell based assay, such as flow-cytometry.

A unique SJ25C1 specific binder protein was identified using phage-display library, and then fused with superGFP at its N-terminus as a 55.2 kD protein. The final fusion protein HRP-2971 was expressed in E.coli as highly soluble protein, and was chromatographically purified.

Gene Symbol: SJ25C1 scFv Binder
Accession Number: None
Species: Mouse IgG backbone
Size: 30 µg / Vial
Composition: 0.3 mg/ml, sterile-filtered, in PBS buffer, 20% Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least two week.

Key References

Bruce E. Bejcek, et al, *.Development and characterization of three recombinant single chain antibody fragments (scFvs) directed against the CD19 antigen.* Cancer Research. Jun 1; 55(11): 2346-51. (1995).



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Pedelacq JD, et al, . *Engineering & characterization of a superfolder green flurescent protein*. Nat Biotechnol. Jan: 24(1): 79-88. (2006).

Applications

Recombinant sfGFP-SJ25C1 scFV specific Binder protein (HRP-2971) can be used for detecting anit-CD19 scFV (clone SJ25C1 derived scFV) expression after lentivirus mediated gene transduction in human T cells using flow-cytometry assay. SuperGFP protein **Ex λ** = 485nm, and **Em λ** = 510nm.

Quality Control

Purity: > 90 % by SDS-PAGE.