



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Anti-Human CD19 scFv Antibody
Catalog Number: RAB-2563
Manufacturer: LD Biopharma, Inc.

Introduction:

Lymphocytes proliferate and differentiate in response to various concentrations of different antigens. The ability of the B cell to respond in a specific, yet sensitive manner to the various antigens is achieved with the use of low-affinity antigen receptors. Human CD19 gene encodes a cell surface molecule, which assembles with the antigen receptor of B lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation. Anti-CD19 antibody has been used for purification B cell or targeting B cell derived lymphoma, such as anti-CD19 single chain antibody mediated chimeric antigen receptor modified T cell (CAT-T) technology.

Anti-human CD19 specific Single Chain Variable Fragment Antibody (clone **SJ25C1**): scFv. (Human H-link-L single chain format) gene was constructed with codon optimization gene synthesis and expressed with a human Alpha Fetal Protein N-terminal (AFPn) -His-TEV cleavage site Tag (217aa) fusion at its N-terminal in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: Anti-Human CD19 scFV
Clone #: SJ25C1
Species: Mouse hybridoma derived
Size: 20 µg / Vial
Composition: 0.2 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose, DTT and others.
Storage: In liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.



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Key References

Kochenderfer, J.N., et al., *Construction and preclinical evaluation of an anti-CD19 chimeric antigen receptor* J. Immunother. 32 (7), 689-702 (2009)

Kochenderfer, J.N., et al., *Eradication of B-lineage cells and regression of lymphoma in a patient treated with autologous T cells genetically engineered to recognize CD19*. Blood 116 (20), 4099-4102 (2010)

Applications

- Highly purified anti - human CD19 recombinant single chain antibody, excellent reagent for detection of human CD19 in ELISA or western blot assay.
- Excellent antigen for generating anti-human CD19 scFv (SJ25C1) antibody

Quality Control:

1. Purity: > 90 % by SDS-PAGE.

Recombinant anti-human AFPn-CD19 scFv Protein (50.1 kD)

MTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEQEATYKEVSKMVKDALTAIEKPTGDEQ
SSGCLLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTPASIPLFQVPEPVT
SCEAYEEDRETFMNFYIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVT
KELRESSGGSHHHHGHSENLYFQGGEEVKLQQSGAELVRPGSSVKISCKASGYAFSSYWMNWV
KQRPQGQLEWIGQIYPGDGDTNYNGKFKGQATLTADKSSSTAYMQLSGLTSEDSAVYFCARKTI
SSVDFYFDYWGQGTTVTVSSGGGSGGGSGGGSDIELTQSPKFMSTSVGDRVSVTCKASQN
VGTNVAWYQQKPGQSPKPLIYSATYRNSGVPDRFTGSGSGTDFTLTIITNVQSKDLADYFCQQYN
RYPYTSGGGT