

Anti-mouse CD19 Rat IgG2a Antibody(1D3-28Z)

Product Information

Product Name Anti-mouse CD19 Rat IgG2a Antibody(1D3-28Z)
Storage temp. Store at 2-8°C short term (1-2 weeks).Store at $\leq -20^{\circ}\text{C}$ long term. Avoid repeated freeze-thaw.

Catalog# / Size **GM-88356MAB-1mg / 1 mg**
GM-88356MAB-5mg / 5 mg
GM-88356MAB-25mg / 5 mg*5 vials
GM-88356MAB-50mg / 50 mg
GM-88356MAB-100mg / 50 mg*2 vials

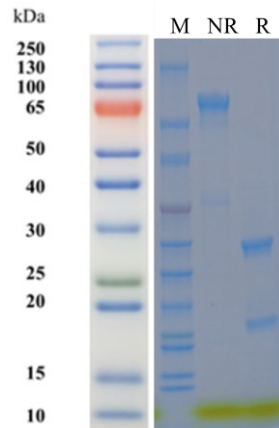
Antibody Information

Expression System CHO
Aggregation < 5% as determined by SEC-HPLC
Purity > 95% as determined by SDS-PAGE
Clone 1D3-28Z
Source/Isotype Rat IgG2a, Kappa
Application Flow Cytometry
Specificity Detects CD19
Gene CD19
Other Names /
Gene ID 12478 (mouse)
Background The CD19 gene is located on the short arm of human chromosome 16 and encodes a type I transmembrane glycoprotein of approximately 95 kda, which belongs to the immunoglobulin superfamily. It acts as a core marker of B cells and is stably expressed from early precursor B cell to mature B cell stages, but is turned off upon plasma cell differentiation. CD19 forms a co-receptor complex with CD21 and CD81, which regulates B cell development, proliferation and antibody production by lowering the B cell receptor activation threshold. Mutations in this gene cause a common variable immunodeficiency disease (CVID3), characterized by reduced antibody production and recurrent infections. Because of its high specificity and wide expression in B cell malignancies, CD19 has become a key target for immunotherapy such as CAR-T therapy and bispecific monoclonal antibody.
Formulation Phosphate-buffered solution, pH 7.2-7.4.
Endotoxin < 1 EU/mg, determined by LAL gel clotting assay

Version:3.1

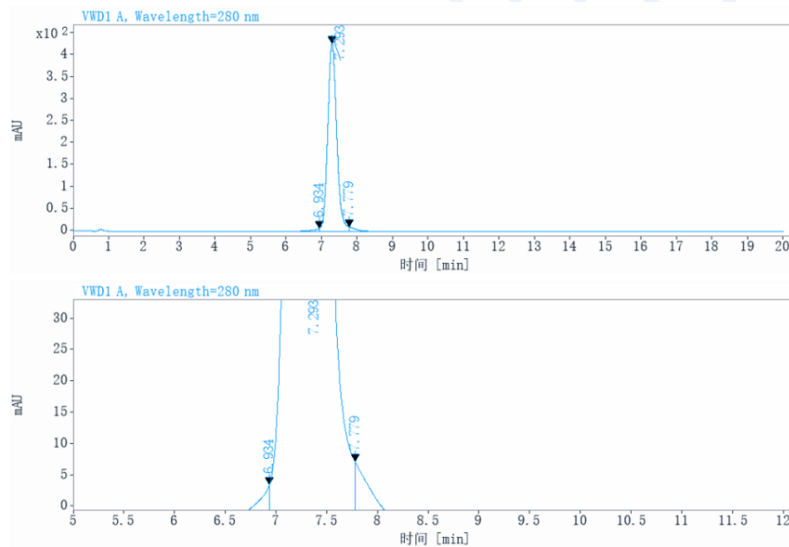
Data Examples

SDS-PAGE



On SDS-PAGE under reducing (R)/non-reducing(N-R) condition. The purity of the protein is greater than 95%.

SEC-HPLC



The purity of this product is more than 95% verified by SEC-HPLC.

Flow Cytometry

Mouse_CD19 CHO-K1 Cell Line (Catalog # GM-C38953) was stained with Anti-mouse CD19 Rat IgG2a Antibody(1D3-28Z) (Catalog # GM-88356MAB) or isotype control antibody, followed by anti-Rat IgG APC-conjugated Secondary Antibody.

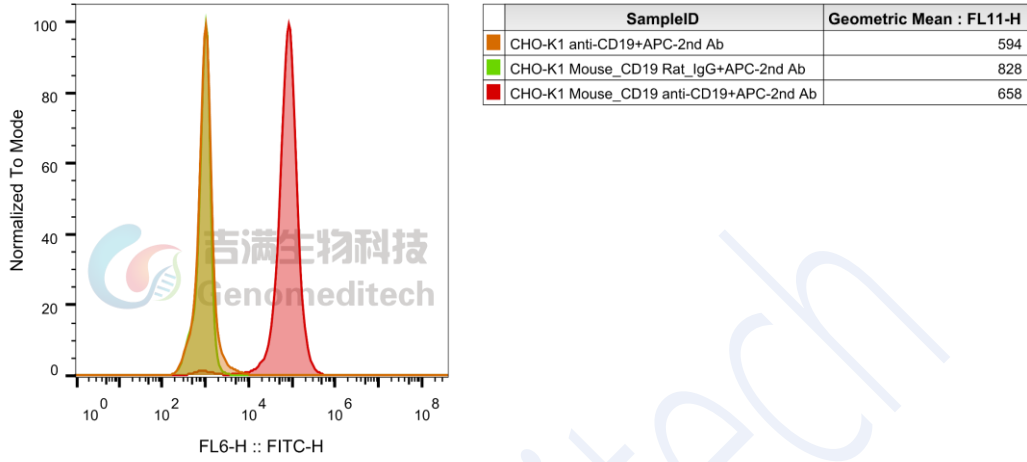


Fig. FACS