Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Carrier-free) (recommended for ADA assay)

Catalog # FM3-Y45A1

Source

Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) is a Mouse monoclonal antibody recombinantly expressed from HEK293 cells.

Clone

Y45

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Human

Immunogen

FMC63.

Specificity

Specifically recognizes the antigen-recognition domain of FMC63 derived antibody.

Application

Application	Recommended Usage
ELISA	6.25-50 ng/mL

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Purification

Protein A purified/ Protein G purified

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

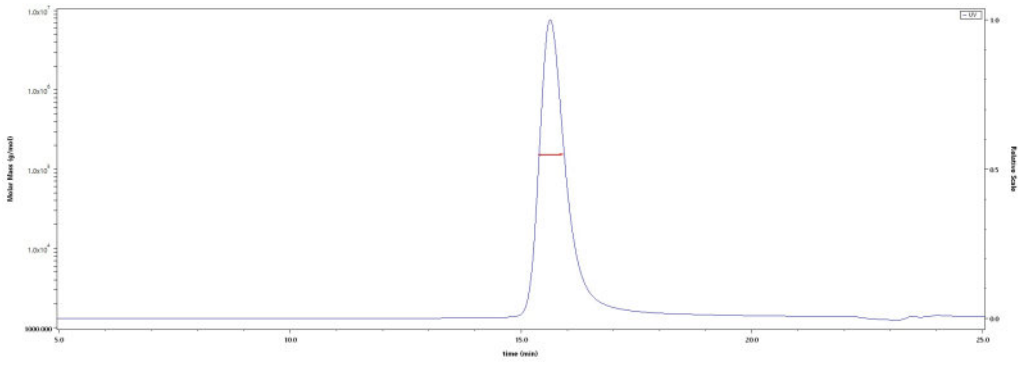
Please avoid repeated freeze-thaw cycles.

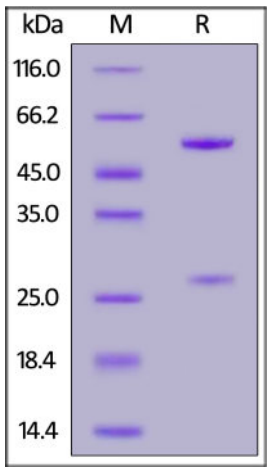
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 6 months under sterile conditions after reconstitution.

SDS-PAGE

SEC-MALS

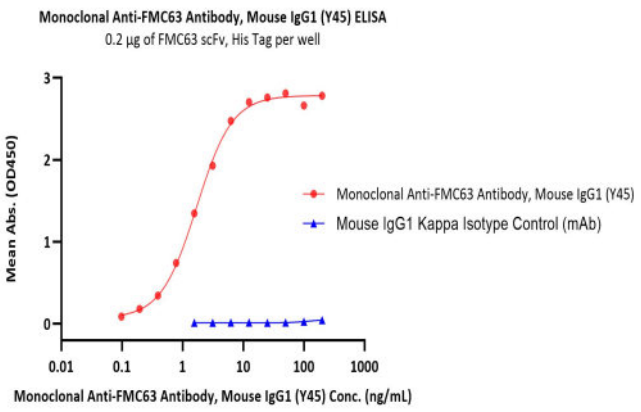




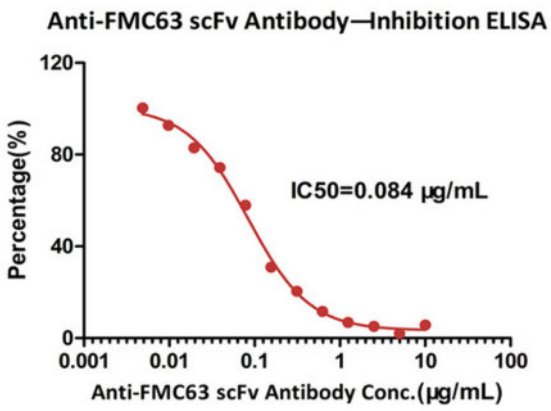
Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

The purity of Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-Y45A1) is more than 95% and the molecular weight of this protein is around 140-160 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA

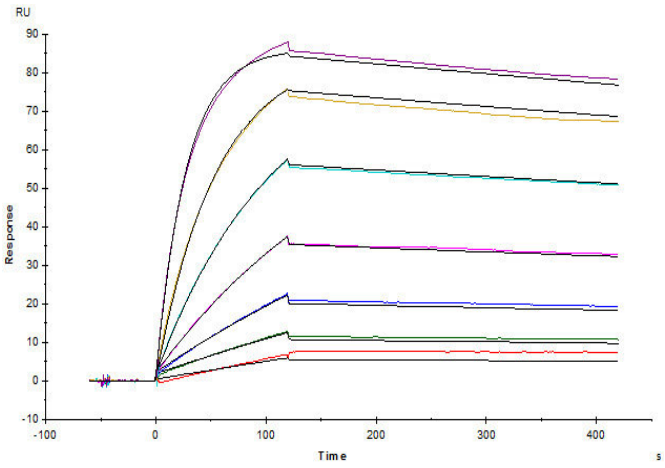


Immobilized FMC63 scFv, His Tag (Cat. No. CD9-M52Hb) at 2 μg/mL (100 μL/well) can bind Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-Y45A1) with a linear range of 0.1-6 ng/mL. FMC63 scFv, His Tag (Cat. No. CD9-M52Hb) is verified not recoginized by Mouse IgG1 Kappa Isotype Control (mAb) (Cat. No. DNP-M1) in low concentration (QC tested).



ELISA analysis shows that the binding of Human CD19, Fc Tag (Cat. No. CD9-H5251) to FMC63 scFv, His Tag (Cat. No. CD9-M52Hb) was inhibited by increasing concentration of Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-Y45A1). The concentration of Human CD19, Fc Tag used is 5 μg/mL (100 μL/well). The IC50 is 0.084 μg/mL (Routinely tested).

Bioactivity-SPR



Monoclonal Anti-FMC63 Antibody, Mouse IgG1 (Y45) (Cat. No. FM3-Y45A1) captured on CM5 chip via anti-mouse antibodies surface can bind FMC63 scFv with an affinity constant of 1.08 nM as determined in a SPR assay (Routinely tested).

Background

FMC63 is an IgG2a mouse monoclonal antibody specific for CD19, which is a target for the immunotherapy of B lineage leukaemias and lymphomas. FMC63 scFv is the most commonly used ectodomain component of CD19-specific CARs. So far, most of reported CART19 trials contain the anti-CD19 scFv derived from FMC63, including the two FDA-approved CARs Kymriah and Yescarta.

Clinical and Translational Updates