



Source

Monoclonal Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8) is a chimeric monoclonal antibody recombinantly expressed from human 293 cells (HEK293), which combines the variable region of a mouse monoclonal antibody with human IgG1 constant domain. The mouse monoclonal antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with His.

Isotype

Human IgG1/kappa

Specificity

This product is a specific antibody specifically reacts with His.

Labeling

Acrininium ester, can react with the primary amino group of protein. Under alkaline conditions, NHS is replaced as the leaving group, and the protein forms a stable amide bond with Acrininium ester.

Protein Ratio

Passed as determined by binding MPCLIA.

Application

MPCLIA

Purity

>95% as determined by SDS-PAGE.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH6.3 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

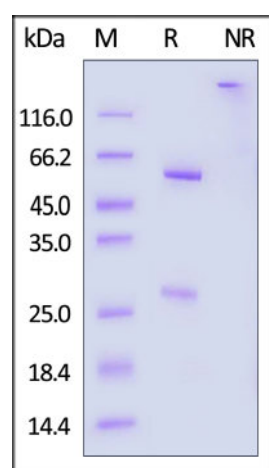
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

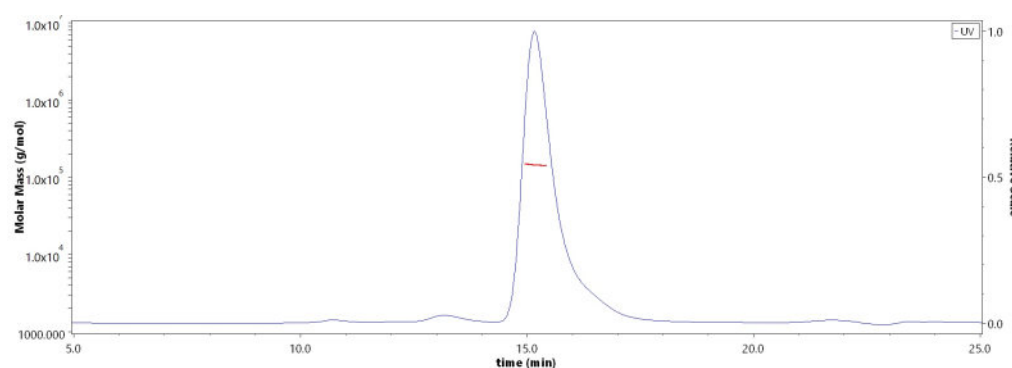
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Monoclonal Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8) on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Monoclonal Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8) (Cat. No. HIS-FM535) is more than 0.85 and the molecular weight of this protein is around 130-160 kDa verified by SEC-MALS.

[Report](#)

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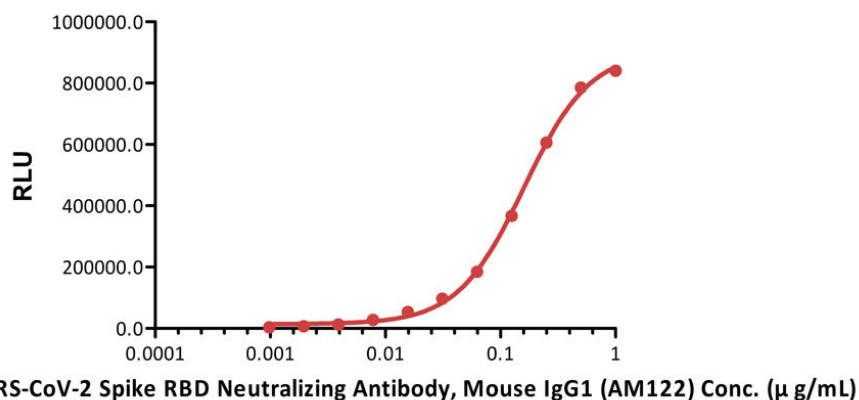




Bioactivity-MPCLIA

Detection of Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Mouse IgG1 (AM122) by MPCLIA

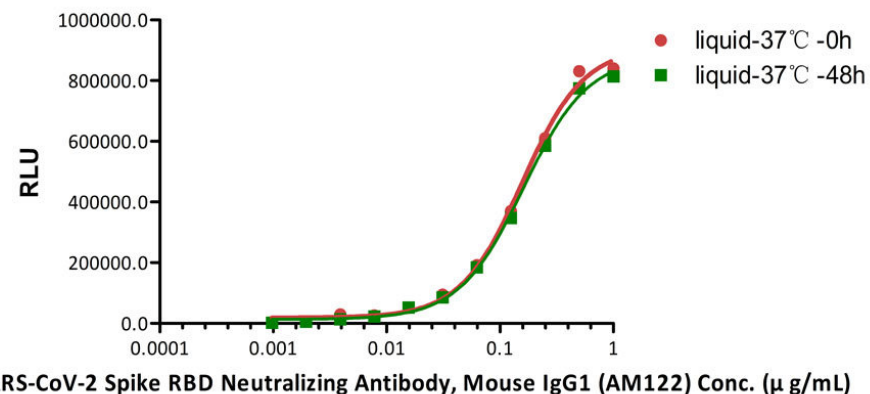
Anti-Mouse IgG-coupled Magnetic Beads : Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8)



Immobilized 0.025 µg /Test of SARS-CoV-2 S protein RBD, His Tag (Cat. No. SPD-C52H3) to the Monoclonal Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8) (Cat. No. HIS-FM535, 0.04 µg /Test), incubated with 100 µL /Test of Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Mouse IgG1 (AM122) (Cat. No. SCT-M369) at increasing concentration coupled to Anti-Mouse IgG-coupled Magnetic Beads (used for MPCLIA) (Cat. No. MPC-A003) (10 µg beads/Test). Detection was performed with sensitivity of 0.98 ng/mL in Magnetism particulate chemiluminescence immunoassay (MPCLIA) (KEYSMILE, SMART 6500S) (QC tested).

Detection of Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Mouse IgG1 (AM122) by MPCLIA

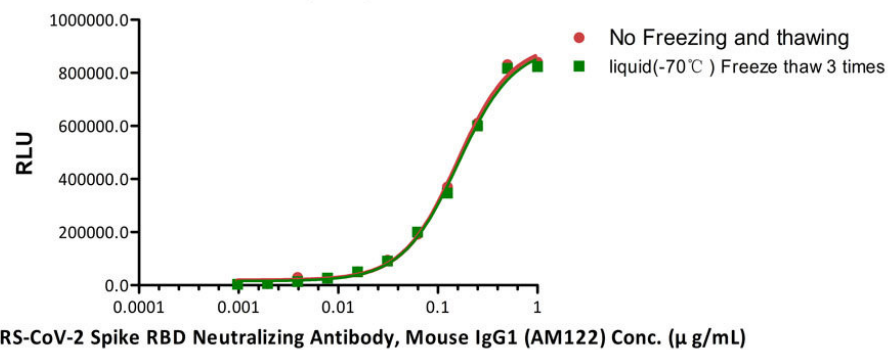
Anti-Mouse IgG-coupled Magnetic Beads : Anti-His Tag Antibody, Human IgG1-Acrininium ester(55F8)



The MPCLIA assay shows that Monoclonal Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8) (Cat. No. HIS-FM535) is stable at 37°C for 48 hours.

Detection of Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Mouse IgG1 (AM122) by MPCLIA

Anti-Mouse IgG-coupled Magnetic Beads : Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8)



The MPCLIA assay shows that Monoclonal Anti-His Tag Antibody, Human IgG1-Acrininium ester (55F8) (Cat. No. HIS-FM535) is stable after freezing and thawing 3 times.

Background

His tag is a very small molecular weight tag, usually composed of 6-10 histidine (His). It is one of the commonly used tags for protein purification and detection. Due to its small molecular weight, fusion into the target protein has almost no effect on the structure and characteristics of the protein. Anti-his tag antibody can accurately detect, locate and purify His tag fusion protein, so as to provide convenience for the vast number of researchers.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

Discounts, Gifts,
and more!

