Recombinant Mouse MASP2 Protein

Catalog No.: RP03102

Sequence Information

Species
Mouse

Gene ID
17175

Swiss Prot
Q91WP0

Tags
C-His

Synonyms
Masp2，Mannan-binding lectin serine protease 2,MASP-2，Mannan-binding lectin serine protease 2 A chain

Product Information

Source
E. coli

Purification

Calculated MW
46.6 kDa

Observed MW
18-20, 27-30 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22μm filtered solution in in 50mM Tris, 200mM NaCl (pH 9.0).

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The dysregulation of complement cascade leads to unsolicited cytokine storm, inflammation, deterioration of alveolar lining cells, culminating in acquired respiratory destructive syndrome (ARDS). Similar pathogenesis is observed with the middle east respiratory syndrome (MERS), severe acquired respiratory syndrome (SARS), and SARS-CoV-2. Activation of the lectin pathway via mannose-binding lectin associated serine protease 2 (MASP2) is witnessed under discrete viral infections including COVID-19.

Basic Information

Description
Recombinant Mouse MASP2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Thr287-Phe685) of Mouse MASP2 (Accession # NP_001003893.1) fused with with His tag at the C-Terminus.

Activity
Immobilized Mouse MASP2, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 5.1 ng/ml determined by ELISA.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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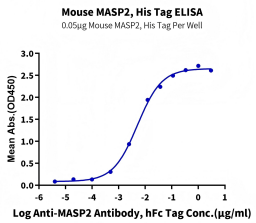
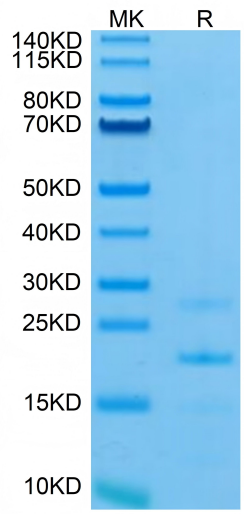
Validation Data



Immobilized Mouse MASP2, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 5.1 ng/ml determined by ELISA.



Recombinant Mouse MASP2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.