

Rat MASP2 Protein

Cat. No. MSP-RE102

Description	
Source	Recombinant Rat MASP2 Protein is expressed from E.coli with His tag at the C-Terminus. It contains Thr287-Phe685.
Accession	A2VCV7
Molecular Weight	The protein has a predicted MW of 46.7 kDa. Due to autocatalytic cleavage, the protein migrates to 15-20 kDa&25-30 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

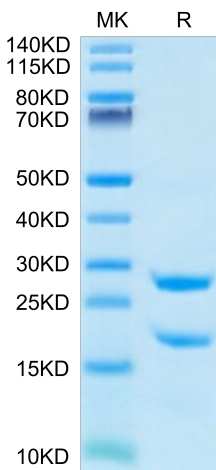
Formulation and Storage	
Formulation	Supplied as 0.22µm filtered solution in 50mM Tris, 200mM NaCl (pH 9.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

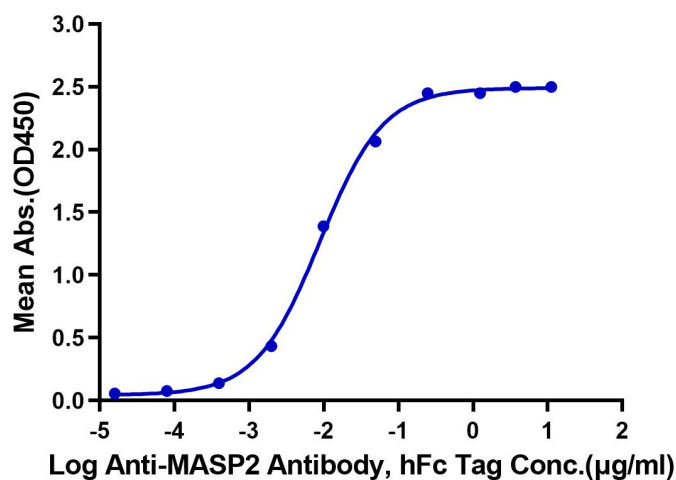
Tris-Bis PAGE



Rat MASP2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Rat MASP2, His Tag ELISA
0.1µg Rat MASP2, His Tag Per Well



Immobilized Rat MASP2, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-MASP2 Antibody, hFc Tag with the EC50 of 8.9ng/ml determined by ELISA.