Datasheet for ABIN7275294

MASP2 Protein (AA 287-685) (His tag)

2 Images

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Overview

Quantity:	100 µg
Target:	MASP2
Protein Characteristics:	AA 287-685
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MASP2 protein is labelled with His tag.

Product Details

Purpose:	Rat MASP2 Protein
Sequence:	Thr287-Phe685
Characteristics:	Recombinant Rat MASP2 Protein is expressed from E.coli with His tag at the C-Terminus.It contains Thr287-Phe685.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	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. See testing image for detail.

Target Details

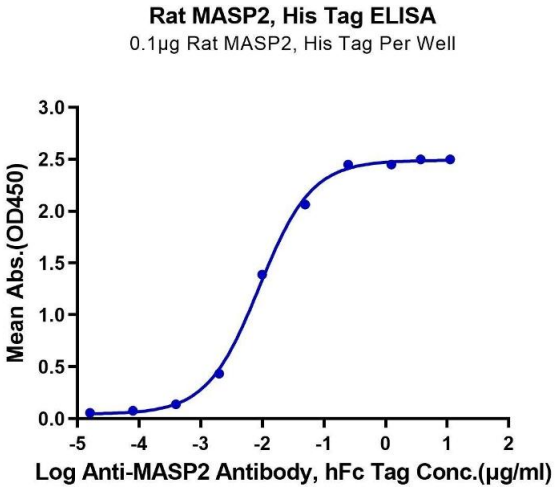
Target:	MASP2
Alternative Name:	MASP2 (MASP2 Products)
Background:	The dysregulation of complement cascade leads to unsolicited cytokine storm, inflammation, deterioration of alveolar lining cells, culminating in acquired respiratory destructive syndrome (ARDS). Similar pathogenesis is observed with 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.
Molecular Weight:	46.7 kDa. Due to autocatalytic cleavage, the protein migrates to 15-20 kDa&25-30 kDa based on Tris-Bis PAGE result.
UniProt:	A2VCV7
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only

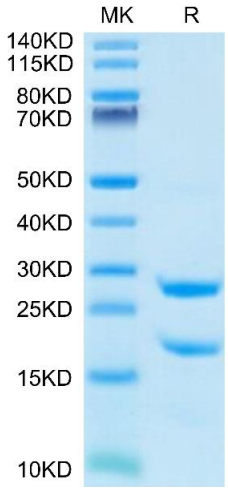
Handling

Format:	Liquid
Buffer:	Supplied as 0.22μm filtered solution in 50 mM Tris, 200 mM NaCl (pH 9.0).
Storage:	-80 °C
Storage Comment:	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.
Expiry Date:	12 months



ELISA

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



SDS-PAGE

Image 2. Rat MASP2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .