Datasheet for ABIN7505079

MASP1 Protein (AA 20-447) (His tag)

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Overview

Quantity:	100 µg
Target:	MASP1
Protein Characteristics:	AA 20-447
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MASP1 protein is labelled with His tag.

Product Details

Sequence:	His 20-Ala 447
Characteristics:	A DNA sequence encoding the Human MASP1 protein (P48740) (His20-Ala447) was expressed with a N-His .
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	MASP1
Alternative Name:	MASP1 (MASP1 Products)
Background:	Abbreviation: MASP1 Target Synonym: Mannan-Binding Lectin Serine Protease 1,Complement Factor MASP-3,Mannose-Binding Lectin-Associated Serine Protease 1,MASP-1,RaRF,Serine Protease 5,MASP1,CRARF,CRARF1,PRSS5

Target Details

	Background: Mannan-Binding Lectin Serine Protease 1 (MASP-1) belongs to the peptidase S1 family. MASP1 contains two CUB domains, one EGF-like domain, one peptidase S1 domain and two Sushi (CCP/SCR) domains. MASP1 is primarily expressed in liver. MASP1 involved in the lectin pathway of the complement, performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. MASP1 is synthesized as a zymogen and activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. MASP1 is not directly involved in complement activation but may act as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP2. MASP1 is also able to cleave fibrinogen and factor XIII and may may be involved in coagulation. MASP1 is inhibited by SERPING1 and A2M.
Molecular Weight:	Calculated MW: 46.97 kDa Observed MW: 48 kDa
UniProt:	P48740
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months