

Recombinant Human MASP1, GST-tagged

Cat. No. MASP1-755H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MASP1(1 a.a. - 380 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a serine protease that functions as a component of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate and adaptive immune response. The encoded protein is synthesized as a zymogen and is activated when it complexes with the pathogen recognition molecules of lectin pathway, the mannose-binding lectin and the ficolins. This protein is not directly involved in complement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activating another complement serine protease, MASP-2. The encoded protein is also able to cleave fibrinogen and factor XIII and may may be involved in coagulation. A splice variant of this gene which lacks the serine protease domain functions as an inhibitor of the complement pathway. Alternate splicing results in multiple transcript variants.
Molecular Mass	70 kDa
AA Sequence	MRWLLLYYALCFSLSKASAHTVELNNMFGQIQSPGYPDSEVTWNITVPDGF RIKLYFMHFNLESSYLCEY DYVKVETEDQVLATFCGRETTDTEQTPGQEVVLSPGS FMSITFRSDFSNEERFTGFDAHYMAVDVDECKEREDEE LSCDHYCHNYIGGGYYCS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

CRFGYILHTDNRTCRVECSNLTQRTGVITSPDFPNPYPKSSECLYTIELEEGFMVN
LQFEDIFDIEDHPEVPCPYDYIKIKVGPKVLGPFCEKAPPEISTQSHSVLILFHSDNS
GENRGWRLSYRAAGNE CPELQPPVHGKIEPSQAKYFFKDQVLVSCDTGYKVLKDN
VEMDTFQIECLKDGTWSNKIPTCKKNEIDLESELKS EQVTE

Applications

ELISA; WB-Re; AP; Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

[MASP1 mannan-binding lectin serine peptidase 1 \(C4/C2 activating component of Ra-reactive factor\) \[Homo sapiens \(human\) \]](#)

Official Symbol

MASP1

Synonyms

MASP1; 3MC1; MAP1; MASP; RaRF; CRARF; MASP3; MAp44; PRSS5; CRARF1; mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor); mannan-binding lectin serine protease 1; serine protease 5; complement factor MASP-3; Ra-reactive factor serine protease p100; mannose-binding protein-associated serine protease; mannose-binding lectin-associated serine protease 1; complement-activating component of Ra-reactive factor; EC 3.4.21.-

Gene ID

[5648](#)

mRNA Refseq

[NM_001031849](#)

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Protein Refseq	NP_001027019
MIM	600521
UniProt ID	P48740
Chromosome Location	3q27-q28
Pathway	Binding and Uptake of Ligands by Scavenger Receptors; Complement Activation; Complement and coagulation cascades
Function	calcium ion binding; calcium-dependent protein binding; peptidase activity

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