

## 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 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** MRWLLLYALCFSLSKASAHTVELNNMFGQIQSPGYPSDSEVTWNITVPDGF  
RIKLYFMHFNLESSYLCEY DYVKVETEDQVLATFCGRETDTTEQTPGQEVVLSPGS  
FMSITFRSDFSNEERFTGFDAHYMAVDVDECKEREDEE LSCDHYCHNYIGGGYYCS

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

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