

**MASP1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18135c****Specification**

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**MASP1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P48740](#)**MASP1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5648**Other Names**

Mannan-binding lectin serine protease 1, 3421-, Complement factor MASP-3, Complement-activating component of Ra-reactive factor, Mannose-binding lectin-associated serine protease 1, MASP-1, Mannose-binding protein-associated serine protease, Ra-reactive factor serine protease p100, RaRF, Serine protease 5, Mannan-binding lectin serine protease 1 heavy chain, Mannan-binding lectin serine protease 1 light chain, MASP1, CRARF, CRARF1, PRSS5

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MASP1 Antibody (Center) Blocking Peptide - Protein Information****Name** MASP1**Synonyms** CRARF, CRARF1, PRSS5**Function**

Functions in the lectin pathway of complement, which performs a key role in innate immunity by recognizing pathogens through patterns of sugar moieties and neutralizing them. The lectin pathway is triggered upon binding of mannan-binding lectin (MBL) and ficolins to sugar moieties which leads to activation of the associated proteases MASP1 and MASP2. Functions as an endopeptidase and may activate MASP2 or C2 or directly activate C3 the key component of complement reaction. Isoform 2 may have an inhibitory effect on the activation of the lectin pathway of complement or may cleave IGFBP5. Also plays a role in development (PubMed:<a href="http://www.uniprot.org/citations/21258343" target="\_blank">21258343</a>).

**Cellular Location**

Secreted.

**Tissue Location**

Protein of the plasma which is primarily expressed by liver.

**MASP1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**MASP1 Antibody (Center) Blocking Peptide - Images****MASP1 Antibody (Center) Blocking Peptide - Background**

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.

**MASP1 Antibody (Center) Blocking Peptide - References**

Kocsis, A., et al. J. Immunol. 185(7):4169-4178(2010) Degen, S.E., et al. J. Immunol. Methods 361(1-2), 37-50 (2010) :Han, S., et al. Hum. Immunol. 71(7):727-730(2010) Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010) Skjoedt, M.O., et al. J. Biol. Chem. 285(11):8234-8243(2010)