

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

Specification

**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

**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)

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: [21258343](http://www.uniprot.org/citations/21258343)).

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](#)