



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

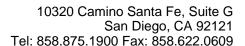
Synonyms CRARF, CRARF1, PRSS5

MASP1 Antibody (Center) Blocking Peptide - Background

This gene encodes a serine protease that functions as acomponent of the lectin pathway of complement activation. The complement pathway plays an essential role in the innate andadaptive immune response. The encoded protein is synthesized as azymogen and is activated when it complexes with the pathogenrecognition molecules of lectin pathway, the mannose-binding lectinand the ficolins. This protein is not directly involved incomplement activation but may play a role as an amplifier of complement activation by cleaving complement C2 or by activatinganother complement serine protease, MASP-2. The encoded protein isalso able to cleave fibringen and factor XIII and may may beinvolved in coagulation. A splice variant of this gene which lacksthe serine protease domain functions as an inhibitor of thecomplement pathway. Alternate splicing results in multipletranscript variants.

MASP1 Antibody (Center) Blocking Peptide - References

Kocsis, A., et al. J. Immunol. 185(7):4169-4178(2010)Degn, 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:<a hr ef="http://www.uniprot.org/citations/21258 343" target="_blank">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