

C4BPB Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP16055c

Specification

C4BPB Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P20851](#)

C4BPB Antibody (Center) Blocking Peptide - Additional Information

Gene ID 725

Other Names

C4b-binding protein beta chain, C4BPB

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.

C4BPB Antibody (Center) Blocking Peptide - Protein Information

Name C4BPB

Function

Controls the classical pathway of complement activation. It binds as a cofactor to C3b/C4b inactivator (C3bINA), which then hydrolyzes the complement fragment C4b. It also accelerates the degradation of the C4bC2a complex (C3 convertase) by dissociating the complement fragment C2a. It also interacts with anticoagulant protein S and with serum amyloid P component. The beta chain binds protein S.

Cellular Location

Secreted.

C4BPB Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

C4BPB Antibody (Center) Blocking Peptide - Images

C4BPB Antibody (Center) Blocking Peptide - Background

This gene encodes a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. A single, unique beta-chain encoded by this gene assembles with seven identical alpha-chains into the predominant isoform of C4b-binding protein, a multimeric protein that controls activation of the complement cascade through the classical pathway. C4b-binding protein has a regulatory role in the coagulation system also, mediated through the beta-chain binding of protein S, a vitamin K-dependent protein that serves as a cofactor of activated protein C. The genes encoding both alpha and beta chains are located adjacent to each other on human chromosome 1 in the regulator of complement activation gene cluster. Alternative splicing gives rise to multiple transcript variants.

C4BPB Antibody (Center) Blocking Peptide - References

Han, S., et al. Hum. Immunol. 71(7):727-730(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Buil, A., et al. Blood 115(23):4644-4650(2010) Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010) Davila, S., et al. Genes Immun. 11(3):232-238(2010)