

C4BPB Antibody (Center) Blocking Peptide Synthetic peptide

Catalog # BP16055c

Specification

C4BPB Antibody (Center) Blocking Peptide - Product Information

Primary Accession

<u>P20851</u>

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 proteinscomposed predominantly of tandemly arrayed short consensus repeatsof approximately 60 amino acids. A single, unique beta-chainencoded by this gene assembles with seven identical alpha-chainsinto the predominant isoform of C4b-binding protein, a multimericprotein 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-chainbinding of protein S, a vitamin K-dependent protein that serves as a cofactor of activated protein C. The genes encoding both alphaand beta chains are located adjacent to each other on humanchromosome 1 in the regulator of complement activation genecluster. Alternative splicing gives rise to multiple transcriptvariants.

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)