

## **C4BPB Antibody (Center)**

**Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP16055c** 

### **Specification**

## **C4BPB Antibody (Center) - Product Information**

**Application** WB,E **Primary Accession** P20851

Other Accession NP 001017365.1, NP 001017367.1,

NP 000707.1 Reactivity Human Host Rabbit Clonality **Polyclonal** Rabbit IgG

Isotype Calculated MW 28357 Antigen Region 125-153

# **C4BPB Antibody (Center) - Additional Information**

### Gene ID 725

### **Other Names**

C4b-binding protein beta chain, C4BPB

### Target/Specificity

This C4BPB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 125-153 amino acids from the Central region of human C4BPB.

### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

C4BPB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

# C4BPB Antibody (Center) - Protein Information

Name C4BPB





Tel: 858.875.1900 Fax: 858.875.1999

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.

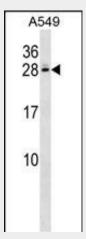
**Cellular Location** Secreted.

### C4BPB Antibody (Center) - Protocols

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

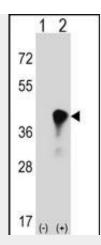
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### C4BPB Antibody (Center) - Images



C4BPB Antibody (Center) (Cat. #AP16055c) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the C4BPB antibody detected the C4BPB protein (arrow).





Western blot analysis of C4BPB (arrow) using rabbit polyclonal C4BPB Antibody (Center) (Cat. #AP16055c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the C4BPB gene.

# C4BPB Antibody (Center) - 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) - 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)