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Anti-Factor B Picoband Antibody
Catalog # ABO12619

Specification

Anti-Factor B Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	P00751
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Complement factor B(CFB) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Factor B Picoband Antibody - Additional Information

Gene ID 629

Other Names
Complement factor B, 3.4.21.47, C3/C5 convertase, Glycine-rich beta glycoprotein, GBG, PBF2, Properdin factor B, Complement factor B Ba fragment, Complement factor B Bb fragment, CFB, BF, BFD

Calculated MW
85533 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Secreted.

Protein Name
Complement factor B

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E. coli-derived human Factor B recombinant protein (Position: E518-L764). Human Factor B shares 84.2% amino acid (aa) sequence identity with mouse Factor B.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-Factor B Picoband Antibody - Protein Information

Name CFB (HGNC:1037)

Synonyms BF, BFD

Function
Precursor of the catalytic component of the C3 and C5 convertase complexes of the alternative pathway of the complement system, a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:3638964, PubMed:624565, PubMed:6554279, PubMed:6919543, PubMed:9748277). The alternative complement pathway acts as an amplification loop that enhances other complement pathways (classical, lectin and GZMK) by promoting formation of additional C3 and C5 convertases (PubMed:3638964, PubMed:624565, PubMed:6554279, PubMed:6919543, PubMed:9748277). CFB is cleaved and activated by CFD to generate Ba and Bb chains; Bb chain constituting the catalytic component of the C3 and C5 convertases (PubMed:6769474, PubMed:9748277).

Cellular Location
Secreted.

Anti-Factor B Picoband Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Factor B Picoband Antibody - Images

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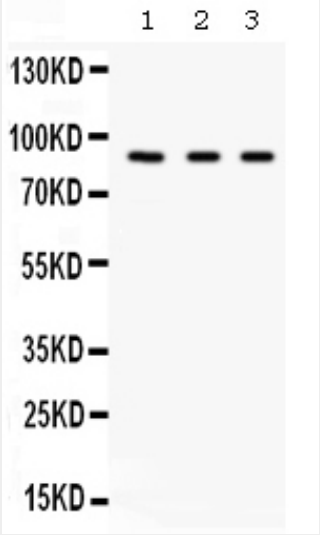
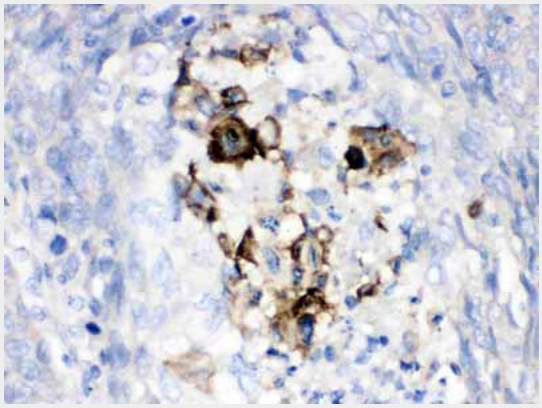


Western blot analysis of Factor B expression in A549 whole cell lysates (lane 1), 293T whole cell lysates (lane 2) and HELA whole cell lysates (lane 3). Factor B at 86KD was detected using rabbit anti- Factor B Antigen Affinity purified polyclonal antibody (Catalog # ABO12619) at 0.5 Î¼g/mL. The blot was developed using chemiluminescence (ECL) method .



Factor B was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Factor B Antigen Affinity purified polyclonal antibody (Catalog # ABO12619) at 1 ??g/mL. The immunohistochemical section was developed using SABC method .

Anti-Factor B Picoband Antibody - Background

Complement factor B is a protein that in humans is encoded by the CFB gene. This gene encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease which associates with C3b to form the alternative pathway C3 convertase. Bb is involved in the proliferation of preactivated B lymphocytes, while Ba inhibits their proliferation. This gene localizes to the major histocompatibility complex (MHC) class III region on chromosome 6. This cluster includes several genes involved in regulation of the immune reaction. Polymorphisms in this gene are associated with a reduced risk of age-related macular degeneration. The polyadenylation site of this gene is 421 bp from the 5' end of the gene for complement component 2.