

Anti-CFD Antibody

Catalog # ABO12536

Product Information

Application	WB
Primary Accession	P03953
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Complement factor D(CFD) detection. Tested with WB in Mouse.

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

Additional Information

Gene ID	11537
Other Names	Complement factor D, 3.4.21.46, 28 kDa adipocyte protein, Adipsin, C3 convertase activator, Properdin factor D, Cfd, Adn, Df
Calculated MW	28057
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Complement factor D
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived mouse Factor D recombinant protein (Position: Q30-K235). Mouse Factor D shares 66.5% and 87.4% amino acid (aa) sequence identity with human and rat Factor D, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, 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.

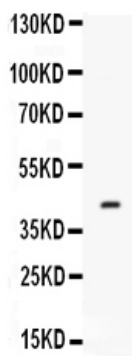
Protein Information

Name	Cfd
Synonyms	Adn, Df
Function	Serine protease that initiates 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. In contrast to other complement pathways (classical, lectin and GZMK) that are directly activated by pathogens or antigen- antibody complexes, the alternative complement pathway is initiated by the spontaneous hydrolysis of complement C3. The alternative complement pathway acts as an amplification loop that enhances complement activation by mediating the formation of C3 and C5 convertases. Activated CFD cleaves factor B (CFB) when the latter is complexed with complement C3b, activating the C3 convertase of the alternative pathway.
Cellular Location	Secreted {ECO:0000250 UniProtKB:P00746}.

Background

Factor D is a protein which in humans is encoded by the CFD gene. The protein encoded by this gene is a member of the trypsin family of peptidases. The encoded protein is a component of the alternative complement pathway best known for its role in humoral suppression of infectious agents. It is also a serine protease that is secreted by adipocytes into the bloodstream. And it stimulates glucose transport for triglyceride accumulation in fats cells and inhibits lipolysis. Finally, the encoded protein has a high level of expression in fat, suggesting a role for adipose tissue in immune system biology.

Images



Western blot analysis of Factor D expression in mouse spleen extract (lane 1). Factor D at 43KD was detected using rabbit anti- Factor D Antigen Affinity purified polyclonal antibody (Catalog # ABO12536) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.