

Mouse Complement Factor D ELISA Kit | CFD elisa kit

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CATALOG #
AAA17422

REACTIVITY
Mouse

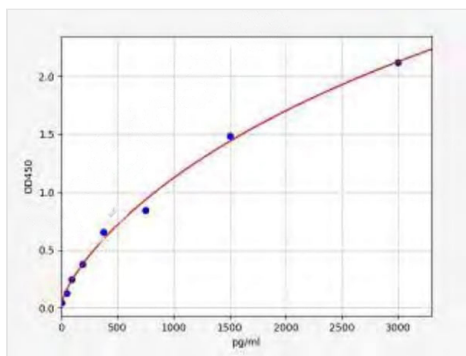
PRODUCT SYNONYMS

Complement Factor D; Mouse Complement Factor D ELISA Kit; CFD/ADN/Adipsin/DF/PFD/Factor D/Properdin Factor D Esterase; CFD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize CFD, no obvious cross reaction with other analogues
Sequence Length	253
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	46.875-3000pg/ml
Sensitivity	28.125pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CFD elisa kit	Background: Complement factor D (CFD) is also known as Adipsin, C3 convertase activator and Properdin factor D (PFD), which contains one peptidase S1 domain and belongs to the peptidase S1 family. CFD cleaves factor B when the latter is complexed with factor C3b, activating the C3bbb complex, which then becomes the C3 convertase of the alternate pathway. CFD is a serine protease that stimulates glucose transport for triglyceride accumulation in fats cells and inhibits lipolysis. Defects in CFD are the cause of complement factor D deficiency which predisposes to invasive meningococcal disease. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti CFD antibody was precoated onto the 96-well plate. The biotin conjugated anti CFD antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with CFD conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of CFD in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42544239
NCBI GeneID	1675
NCBI Accession #	NP_001919.2
NCBI GenBank Nucleotide #	NM_001928.3
Molecular Weight	27,033 Da
NCBI Official Full Name	complement factor D isoform 1 preproprotein
NCBI Official Synonym Full Names	complement factor D (adipsin)
NCBI Official Symbol	CFD
NCBI Official Synonym Symbols	DF; ADN; PFD; ADIPSIN
NCBI Protein Information	complement factor D
UniProt Protein Name	Complement factor D
UniProt Gene Name	CFD
UniProt Synonym Gene Names	DF; PFD
UniProt Entry Name	CFAD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cfd-mouse-elisa-kits/complement-factor-d/17422>