

Human Complement C4-B ELISA Kit | C4B elisa kit

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CATALOG #
AAA101950

REACTIVITY
Human

PRODUCT SYNONYMS

Complement C4-B; Human Complement C4-B ELISA Kit; C4B/Complement C4-B/Basic complement C4/C3 and PZP-like alpha-2-macroglobulin domain-containing protein 3/C4-B/CPAMD3/C4 (Chido Blood Group)/Basic C4/CO4/CPAMD3; C4B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of C4B . No significant cross-reactivity or interference between C4B and analogues was observed. Note: Limited by current skills and knowledge, it is impossible for us to complete the cross - reactivity detection between C4B and all the analogues, therefore, cross reaction may still exist.
Sequence Length	1744
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	4.688-300ng/ml
Sensitivity	2.813ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level C4B were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level C4B were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
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

Typical Data & Standard Curve									
Results of a typical standard run of a C4B ELISA kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A not applicable)									
X	ng/ml	0	4.688	9.375	18.75	37.5	75	150	300
Y	OD450	0.012	0.127	0.243	0.448	0.823	1.411	1.869	2.243

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for C4B elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-C4B antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- C4B antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the C4B amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of C4B can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	178557739
NCBI GeneID	721
NCBI Accession #	NP_001002029.3
NCBI GenBank Nucleotide #	NM_001002029.3
Molecular Weight	192,751 Da
NCBI Official Full Name	complement C4-B preproprotein
NCBI Official Synonym Full Names	complement component 4B (Chido blood group)
NCBI Official Symbol	C4B
NCBI Official Synonym Symbols	CH; C4F; CO4; C4B1; C4B2; C4B3; C4B5; C4BD; C4B12; C4B_2; CPAMD3
NCBI Protein Information	complement C4-B
UniProt Protein Name	Complement C4-B
UniProt Gene Name	C4B
UniProt Synonym Gene Names	CO4; CPAMD3
UniProt Entry Name	CO4B_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/c4b-human-elisa-kits/complement-c4-b/101950>