

Mouse Complement C3 ELISA Kit | C3 elisa kit

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CATALOG #
AAA17531

REACTIVITY
Mouse

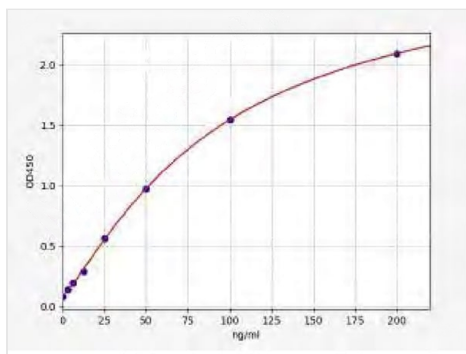
PRODUCT SYNONYMS

Complement C3; Mouse Complement C3 ELISA Kit; C3/ASP/CPAMD1/AHUS5/ARMD9/C3a/C3b; C3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Specifically recognize C3, no obvious cross reaction with other analogues
Sequence Length	1663
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	3.125-200ng/ml
Sensitivity	1.875ng/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 C3 elisa kit	Background: C3 is the complement component with the highest content in serum, which is mainly synthesized by macrophages and liver. Under the action of C3 invertase, C3 is cleaved into two fragments, C3a and C3b, which play an important role in both the classical and bypass activation pathways of complement. Increased C3 is commonly seen in some acute inflammation or early infectious diseases, such as acute rheumatic fever, myocarditis, myocardial infarction, arthritis and so on. C3 reduction is commonly seen in decreased complement synthesis, such as chronic active hepatitis, cirrhosis, liver necrosis, etc. Excessive depletion or loss of complement, such as active lupus erythematosus, early and late acute glomerulonephritis, basement membrane proliferative glomerulonephritis, cryoglobulinemia, severe rheumatoid arthritis, extensive burns, etc. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti C3 antibody was precoated onto the 96-well plate. The biotin conjugated anti C3 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 C3 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 C3 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 #	115298678
NCBI GeneID	718
NCBI Accession #	NP_000055.2
NCBI GenBank Nucleotide #	NM_000064.3
Molecular Weight	187,148 Da
NCBI Official Full Name	complement C3 preproprotein
NCBI Official Synonym Full Names	complement component 3
NCBI Official Symbol	C3
NCBI Official Synonym Symbols	ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1; HEL-S-62p
NCBI Protein Information	complement C3
UniProt Protein Name	Complement C3
UniProt Gene Name	C3
UniProt Synonym Gene Names	CPAMD1; C3bc; ASP
UniProt Entry Name	CO3_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.