

Pig Complement 3 (C3) ELISA Kit

Catalog No: #EK12212



Package Size: #EK12212-1 48T #EK12212-2 96T

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Description

Product Name	Pig Complement 3 (C3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (Sus scrofa; Porcine)
Other Names	AHUS5; ARMD9; ASP; CPAMD1; acylation-stimulating protein cleavage product complement component C3
Accession No.	P01025
Uniprot	P01025
GeneID	397072;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.391-25 ng/mL

Sensitivity:0.19 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate C3 in samples. An antibody specific for C3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyC3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for C3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of C3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Complement C3 is the major plasma proteins of the immune system complement pathways. The synthesis of these proteins is increased in response to inflammation and infection but at a slower rate than for traditional acute phase proteins. Complement protein C3 is the fourth component to attach in the complement reaction sequence. It is a beta-globulin with a sedimentation coefficient of 5.5 and a molecular weight of 185,000. C3 is a central molecule in the complement system whose activation is essential for all the important functions performed by this system. C3 can promote phagocytosis during an inflammatory response against pathogens, but unregulated activation of C3 could lead to host cell damage. Low level of serum C3 associates with hypocomplementaemia, primary biliary cirrhosis

Note: This product is for in vitro research use only