Rat Mannose-binding protein C (MBL2) ELISA Kit

Catalog No: #EK9837

Package Size: #EK9837-1 48T #EK9837-2 96T

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Description

Product Name	Rat Mannose-binding protein C (MBL2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	COLEC1; HSMBPC; MBL; MBP; MBP1; MGC116832; MGC116833; mannan-binding lectin|mannose-binding lectin 2; soluble (opsonic defect)|mannose-binding protein C|soluble mannose-binding lectin
Accession No.	P08661
Uniprot	P08661
GeneID	100911854;64668;
Storage	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. 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).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.126 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 MBL2 in samples. An antibody specific for MBL2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMBL2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MBL2 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 MBL2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Mannosebinding protein (MBP), initiates the lectin branch of the innate immune response by binding to the surface of potentially pathogenic microorganisms and initiating complement fixation through an N-terminal collagen-like domain. MBL is a key component in immune response in that it can directly trigger neutralization of invading microorganisms by an Ab-independent mechanism.It binds to sugars on the surface of bacterial, fungal and parasitic cells through C-terminal, Ca2 -dependent carbohydrate-recognition domains. Mutations of human MBL are associated with immunodeficiency resulting from a reduction in the ability of the mutant MBL to initiate complement fixation.

Note: This product is for in vitro research use only