Human Mannan-binding lectin serine peptidase 2 (MASP2) ELISA Kit

Catalog No: #EK9890

Package Size: #EK9890-1 48T #EK9890-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Mannan-binding lectin serine peptidase 2 (MASP2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MAP19; MASP-2; sMAP; MBL-associated plasma protein of 19 kD|MBL-associated serine protease 2|mannan-binding lectin serine protease 2|small MBL-associated protein
Accession No.	O00187
Uniprot	O00187
GeneID	10747;
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:31.25-2000 pg/mL

Sensitivity:13.9 pg/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 MASP2 in samples. An antibody specific for MASP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMASP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MASP2 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 MASP2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:MASP2 is a protein involved in the complement system. Mannose-binding lectin (MBL) is a serum component which participates in innate immunity by activating complement via a novel pathway. Human MBL forms complexes with two types of serine proteases termed MASP (MBL-associated serine protease). These two proteases, MASP1 and MASP2, are structurally similar to one another as well as to C1r and C1s. Together, MASP, C1r and C1s constitute a novel serine protease family. It is likely that human MASP1 is able to activate C3, while human MASP2 cleaves C4, although further functional studies are required to confirm this. Based on the analysis of MASP cDNA of vertebrates and ascidians, the MASP/C1r/C1s family can be classified into two groups.

Note: This product is for in vitro research use only