Mouse Mannan-binding lectin serine protease 1 (MASP1) ELISA Kit

Catalog No: #EK9891

Package Size: #EK9891-1 48T #EK9891-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Mannan-binding lectin serine protease 1 (MASP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CRARF; CRARF1; DKFZp686I01199; FLJ26383; MASP; MGC126283; MGC126284; PRSS5; RaRF; Ra-reactive factor serine protease p100|manan-binding lectin serine protease-1|mannan-binding lectin serine protease
Accession No.	P98064
Uniprot	P98064
GeneID	17174;
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:15.6-1000 pg/mL

Sensitivity:6.9 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 MASP1 in samples. An antibody specific for MASP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyMASP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MASP1 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 MASP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Mannose-associated serine protease 1 (MASP1) is involved in the lectin pathway of the complement system and is responsible for cleaving C4 and C2 to form C4b2a, a C3-convertase.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.

Note: This product is for in vitro research use only