

## Human Mannan-binding lectin serine protease 1 ELISA Kit | MASP1 elisa kit

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CATALOG #  
**AAA17652**

REACTIVITY  
**Human**

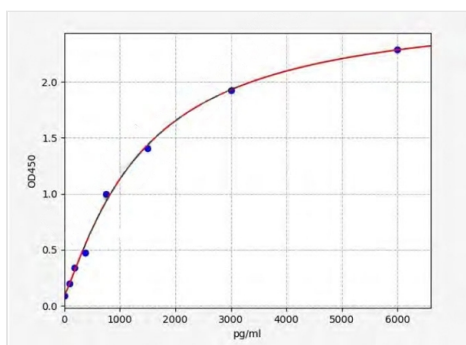
### PRODUCT SYNONYMS

Mannan-binding lectin serine protease 1; Human Mannan-binding lectin serine protease 1 ELISA Kit; MASP1/Mannan-binding lectin serine protease 1/Serine protease 5/Ra-reactive factor serine protease p100/RaRF/Mannose-binding protein-associated serine protease/Mannose-binding lectin-associated serine protease 1/MASP-1/Complement factor MASP-3/Complement-activating component of Ra-reactive factor/CRARF/CRARF1/PRSS5; MASP1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Specificity             | Specifically recognize MASP1, no obvious cross reaction with other analogues                                                                                 |
| Sequence Length         | 728                                                                                                                                                          |
| Assay Type              | Sandwich                                                                                                                                                     |
| Samples                 | Serum, plasma, cell culture supernatant and other biological samples                                                                                         |
| Detection Range         | 93.75-6000pg/ml                                                                                                                                              |
| Sensitivity             | 56.25pg/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 MASP1 elisa kit | <p>Background: Mannan binding lectin (MBL)-associated serine protease type 1 (MASP-1) has a central role in the lectin pathway of complement activation and is required for the formation of C3 convertase. The balance of MASP-1 activity may be proinflammatory and act to accelerate fibrosis progression in HCV liver disease.</p> <p>Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti MASP1 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti MASP1 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 MASP1 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 MASP1 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------|
| NCBI GI #                        | 21264359                                                                                    |
| NCBI GeneID                      | 5648                                                                                        |
| NCBI Accession #                 | NP_624302.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_139125.3                                                                                 |
| Molecular Weight                 | 68,918 Da                                                                                   |
| NCBI Official Full Name          | mannan-binding lectin serine protease 1 isoform 2                                           |
| NCBI Official Synonym Full Names | mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) |
| NCBI Official Symbol             | MASP1                                                                                       |
| NCBI Official Synonym Symbols    | 3MC1; MAP1; MASP; RaRF; CRARF; MASP3; Map44; PRSS5; CRARF1                                  |
| NCBI Protein Information         | mannan-binding lectin serine protease 1                                                     |
| UniProt Protein Name             | Mannan-binding lectin serine protease 1                                                     |
| UniProt Gene Name                | <b>MASP1</b>                                                                                |
| UniProt Synonym Gene Names       | CRARF; CRARF1; PRSS5; MASP-1; RaRF                                                          |
| UniProt Entry Name               | MASP1_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.