

## Human MBL2/MPB-C ELISA Kit | MBL2 elisa kit

Human MBL2/MPB-C Quick ELISA Kit

CATALOG #  
**AAA125875**

REACTIVITY  
**Human**

### PRODUCT SYNONYMS

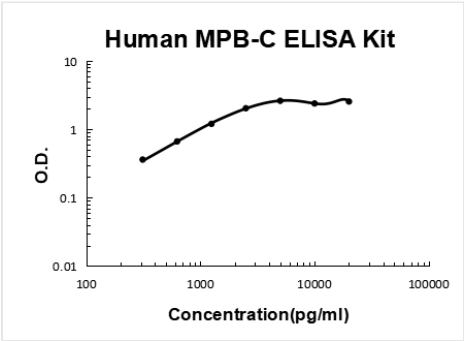
MBL2/MPB-C; Human MBL2/MPB-C Quick ELISA Kit; MBL2|COLEC1; COLEC1collectin-1; Collectin-1; HSMBPC; Mannan-binding protein; mannanose-binding lectin (protein C) 2; soluble (opsonic defect); soluble; Mannose-binding lectin; mannanose-binding protein C; MBL; MBL2; MBL2D; MBLmannan-binding lectin; MBP; MBP1; MBP1mannose-binding lectin 2; MBP-C; MGC116832; MGC116833; MBL2 elisa kit

### PRODUCT SPECIFICATIONS

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                   | Human                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity                  | Natural and recombinant Human MBL2                                                                                                                                                                                                                                                                                                                                                                                            |
| Assay Type                   | Colorimetric sandwich                                                                                                                                                                                                                                                                                                                                                                                                         |
| Samples                      | cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)                                                                                                                                                                                                                                                                                                                                                     |
| Detection Range              | 312pg/ml-20,000pg/ml                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sensitivity                  | <10pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Capture/Detection Antibodies | Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat                                                                                                                                                                                                                                                                                                                             |
| Sample Data                  | Concentration(pg/ml) 0 312 625 1250 2500 5000 10000 20000<br>O.D. 0.027 0.388 0.693 1.231 2.064 2.644 2.417 2.577                                                                                                                                                                                                                                                                                                             |
| Intra-Assay Precision        | Sample 1 2 3 <br>n 16 16 16 <br>Mean(pg/ml) 482 2754 8841 >Standard deviation 26.99 126.68 680.76 <br>CV(%) 5.6% 4.6% 7.7%                                                                                                                                                                                                                                                                                                    |
| Inter-Assay Precision        | Sample 1 2 3 <br>n 24 24 24 <br>Mean(pg/ml) 446 2879 8912<br>Standard deviation 33 149.71 730.78<br>CV(%) 7.4% 5.2% 8.2%                                                                                                                                                                                                                                                                                                      |
| Reproducibility              | To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots.<br>Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%)<br>Sample 1: 482 544 480 477 496 31.23 6.3%<br>Sample 2: 2754 2813 2929 2845 2835 59.54 2.1%<br>Sample 3: 8841 9907 8436 9421 9151 503.32 5.5%<br>*number of samples for each test n=16. |
| Cross Reactivity             | There is no detectable cross-reactivity with other relevant proteins.                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen                    | Expression system for standard: NS0; Immunogen sequence: E21-I248                                                                                                                                                                                                                                                                                                                                                             |
| Anticoagulant                | heparin or EDTA                                                                                                                                                                                                                                                                                                                                                                                                               |
| Benefits                     | The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human MBL2/MPB-C with <10pg/ml sensitivity.<br>Format: 96-well plate with removable strips.<br>This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.                                                                                                                                                                 |

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|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Principle               | <p>Human MBL2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human MBL2 in cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA). It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human MBL2 with immunogen: Expression system for standard: NS0; Immunogen sequence: E21-I248.</p> <p>To measure Human MBL2, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human MBL2 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human MBL2 in the sample.</p> |
| Assay Procedure Step 1  | 20000pg/ml, 10000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312.5pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| TMB Incubation Time     | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### IMAGES



Application Data

### ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MBL2 elisa kit | <p>MBL2, also called mannose-binding lectin (protein C) 2, soluble or Mannose-binding lectin (MBL) is a lectin that is instrumental in innate immunity. MBL2 is mapped to chromosome 10q11. 2-q21. It belongs to the class of collectins in the C-type lectin superfamily, whose function appears to be pattern recognition in the first line of defense in the pre-immune host. MBL2 recognizes carbohydrate patterns, found on the surface of a large number of pathogenic micro-organisms, including bacteria, viruses, protozoa and fungi. Binding MBL2 to a micro-organism results in activation of the lectin pathway of the complement system. Another important function of MBL2 is that this molecule binds senescent and apoptotic cells and enhances engulfment of whole, intact apoptotic cells, as well as cell debris by phagocytes.</p> |
| Product Categories/Family for MBL2 elisa kit   | <p>ELISA kits</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### NCBI AND UNIPROT INFORMATION

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| NCBI GI #                 | 4557739                                                        |
| NCBI GeneID               | 4153                                                           |
| NCBI Accession #          | NP_000233.1                                                    |
| NCBI GenBank Nucleotide # | NM_000242.2                                                    |
| UniProt Accession #       | P11226; Q4VB12; Q4VB13; Q86SI4; Q96KE4; Q96TF7; Q96TF8; Q96TF9 |

|                                         |                                                                                                                                                                                   |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Weight</b>                 | 26,144 Da                                                                                                                                                                         |
| <b>NCBI Official Full Name</b>          | mannose-binding protein C                                                                                                                                                         |
| <b>NCBI Official Synonym Full Names</b> | mannose-binding lectin (protein C) 2, soluble                                                                                                                                     |
| <b>NCBI Official Symbol</b>             | MBL2                                                                                                                                                                              |
| <b>NCBI Official Synonym Symbols</b>    | MBL; MBP; MBP1; MBPD; MBL2D; MBP-C; COLEC1; HSMBPC                                                                                                                                |
| <b>NCBI Protein Information</b>         | mannose-binding protein C; collectin-1; mannan-binding lectin; mannose-binding lectin 2, soluble (opsonic defect); mannose-binding lectin (protein C) 2, soluble (opsonic defect) |
| <b>UniProt Protein Name</b>             | Mannose-binding protein C                                                                                                                                                         |
| <b>UniProt Gene Name</b>                | <b>MBL2</b>                                                                                                                                                                       |
| <b>UniProt Synonym Gene Names</b>       | COLEC1; MBL; MBP-C                                                                                                                                                                |
| <b>UniProt Entry Name</b>               | MBL2_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mb12-mpb-c/125875>