

## Human proteasome (prosome, macropain) subunit, beta type, 2 ELISA Kit | PSMB2 elisa kit

Human proteasome (prosome, macropain) subunit, beta type, 2, PSMB2 ELISA Kit

CATALOG #  
**AAA112496**

REACTIVITY  
**Human**

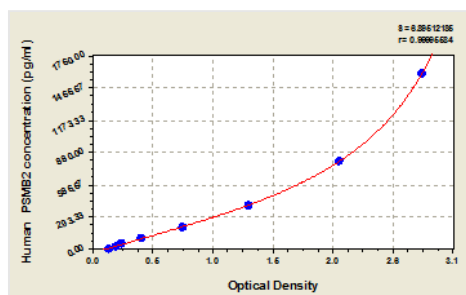
### PRODUCT SYNONYMS

proteasome (prosome; macropain) subunit; beta type; 2; Human proteasome (prosome; PSMB2 ELISA Kit; 2 (PSMB2) ELISA kit; RP5-983H21.1; HC7-I; MGC104215; MGC126885; macropain subunit C7-I; multicatalytic endopeptidase complex subunit C7-1; proteasome beta 2 subunit; proteasome component C7-I; proteasome subunit; ; PSMB2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of human PSMB2. No significant cross-reactivity or interference between human PSMB2 and analogues was observed.                                                                                                                                                                    |
| Sequence Length         | 201                                                                                                                                                                                                                                                                                                                                                        |
| Samples                 | Serum, plasma, tissue homogenates, Cell lysates                                                                                                                                                                                                                                                                                                            |
| Assay Type              | Sandwich                                                                                                                                                                                                                                                                                                                                                   |
| Detection Range         | 25 pg/ml -1600 pg/ml.                                                                                                                                                                                                                                                                                                                                      |
| Sensitivity             | The minimum detectable dose of human PSMB2 is typically less than 6.2 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations. |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.                                                                                                                                                                                                           |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.                                                                                                                                                                                                                    |
| Preparation and Storage | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.                                                                                                                                                                                                                          |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PSMB2 elisa kit | <b>Principle of the assay:</b> This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for PSMB2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PSMB2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSMB2 is added to the wells. After washing, avidin 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 PSMB2 bound in the initial step. The color development is stopped and the intensity of the color is measured. |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4506195                                                                                                                                                                                                                                              |
| NCBI GeneID                      | 5690                                                                                                                                                                                                                                                 |
| NCBI Accession #                 | NP_002785.1                                                                                                                                                                                                                                          |
| NCBI GenBank Nucleotide #        | NM_002794.4                                                                                                                                                                                                                                          |
| UniProt Accession #              | P49721; P31145; Q9BWZ9; D3DPS0                                                                                                                                                                                                                       |
| Molecular Weight                 | 22,836 Da                                                                                                                                                                                                                                            |
| NCBI Official Full Name          | proteasome subunit beta type-2 isoform 1                                                                                                                                                                                                             |
| NCBI Official Synonym Full Names | proteasome (prosome, macropain) subunit, beta type, 2                                                                                                                                                                                                |
| NCBI Official Symbol             | PSMB2                                                                                                                                                                                                                                                |
| NCBI Official Synonym Symbols    | HC7-I                                                                                                                                                                                                                                                |
| NCBI Protein Information         | proteasome subunit beta type-2; macropain subunit C7-I; proteasome beta 2 subunit; proteasome component C7-I; proteasome subunit, beta type, 2; multicatalytic endopeptidase complex subunit C7-1; multicatalytic endopeptidase complex subunit C7-I |
| UniProt Protein Name             | Proteasome subunit beta type-2                                                                                                                                                                                                                       |
| UniProt Gene Name                | PSMB2                                                                                                                                                                                                                                                |
| UniProt Entry Name               | PSB2_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.