

## Human Proteasome Subunit Alpha Type 1 (PSMa1) ELISA Kit | PSMa1 elisa kit

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CATALOG #  
**AAA136548**

REACTIVITY  
**Human**

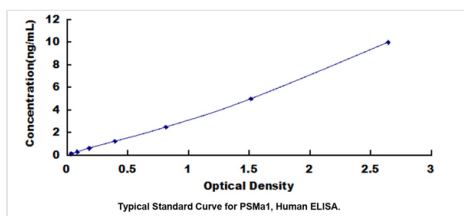
### PRODUCT SYNONYMS

Proteasome Subunit Alpha Type 1 (PSMa1); Human Proteasome Subunit Alpha Type 1 (PSMa1) ELISA Kit; HC2; NU; PROS30; Proteasome(Prosome; Macropain)Subunit; Alpha Type; 1; Macropain subunit C2; Multicatalytic endopeptidase complex subunit C2; Proteasome nu chain; PSMa1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of PSMa1. No significant cross-reactivity or interference between PSMa1 and analogues was observed.                                                                                                                                                                                                                                                                                                                |
| Sequence Length         | 274                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Samples                 | Human tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                |
| Detection Range         | 0.156-10ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity             | < 0.055ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PSMa1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                    |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PSMa1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                  |
| Preparation and Storage | The stability of 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.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PSMa1 elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to PSMa1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to PSMa1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PSMa1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of PSMa1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PSMa1 in human tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
| Product Categories/Family for PSMa1 elisa kit   | Enzyme & Kinase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                           |                                 |
|---------------------------|---------------------------------|
| NCBI GI #                 | 226531007                       |
| NCBI GeneID               | 100282706                       |
| NCBI Accession #          | NP_001149085.1                  |
| NCBI GenBank Nucleotide # | NM_001155613.1                  |
| NCBI Official Full Name   | proteasome subunit alpha type 1 |
| NCBI Official Symbol      | LOC100282706                    |
| NCBI Protein Information  | proteasome subunit alpha type 1 |

**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/proteasome-subunit-alpha-type-1-psma1/136548>