

Human Proteasome Subunit alpha Type-1 (PSMA1) ELISA Kit | PSMA1 elisa kit

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CATALOG #
AAA331267

REACTIVITY
Human

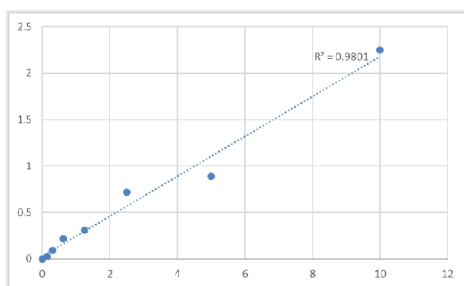
PRODUCT SYNONYMS

Proteasome Subunit alpha Type-1 (PSMA1); Human Proteasome Subunit alpha Type-1 (PSMA1) ELISA Kit; PSMA1; HC2; MGC14542; MGC14575; MGC14751; MGC1667; MGC21459; MGC22853; MGC23915; NU; PROS30; 30 kDa prosomal protein; macropain subunit nu; multicatalytic endopeptidase complex subunit C2; proteasome alpha 1; PSMA1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Proteasome subunit alpha type-1 (PSMA1) ELISA Kit has high sensitivity and excellent specificity for detection of Human PSMA1. No significant cross-reactivity or interference between Human PSMA1 and analogues was observed.
Sequence Length	263
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Proteasome subunit alpha type-1 (PSMA1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PSMA1 elisa kit	Description: This Human Proteasome subunit alpha type-1 (PSMA1) ELISA Kit employs a two-site sandwich ELISA to quantitate PSMA1 in samples. An antibody specific for PSMA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PSMA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSMA1 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 PSMA1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Proteasome subunit alpha type-1 is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. Two alternative transcripts encoding different isoforms have been identified.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	130848
NCBI GeneID	5682
UniProt Accession #	P25786
NCBI Official Full Name	Proteasome subunit alpha type-1
NCBI Official Synonym Full Names	proteasome subunit alpha 1
NCBI Official Symbol	PSMA1
NCBI Official Synonym Symbols	NU; HC2; PROS30; HEL-S-275
NCBI Protein Information	proteasome subunit alpha type-1
UniProt Protein Name	Proteasome subunit alpha type-1
UniProt Gene Name	PSMA1
UniProt Synonym Gene Names	HC2; NU; PROS30; PSC2; PROS-30
UniProt Entry Name	PSA1_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/proteasome-subunit-alpha-type-1-psma1/331267>