

Human Proteasome Subunit alpha Type-5 (PSMA5) ELISA Kit | PSMA5 elisa kit

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CATALOG #
AAA331266

REACTIVITY
Human

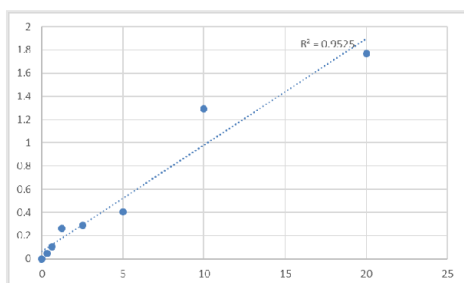
PRODUCT SYNONYMS

Proteasome Subunit alpha Type-5 (PSMA5); Human Proteasome Subunit alpha Type-5 (PSMA5) ELISA Kit; PSMA5; MGC117302; MGC125802; MGC125803; MGC125804; PSC5; ZETA; macropain subunit zeta; macropain zeta chain; multicatalytic endopeptidase complex zeta chain; proteasome alpha 5 subunit; proteasome component 5; PSMA5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Proteasome subunit alpha type-5 (PSMA5) ELISA Kit has high sensitivity and excellent specificity for detection of Human PSMA5. No significant cross-reactivity or interference between Human PSMA5 and analogues was observed.
Sequence Length	183
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-5 (PSMA5) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PSMA5 elisa kit	Description: This Human Proteasome subunit alpha type-5 (PSMA5) ELISA Kit employs a two-site sandwich ELISA to quantitate PSMA5 in samples. An antibody specific for PSMA5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PSMA5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSMA5 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 PSMA5 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. PSMA5 encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. The cDNA encoded a 241-amino acid polypeptide. The calculated and observed molecular masses were 26 kD and 29 kD, respectively. Northern blot analysis revealed an mRNA of 1.2 kb in both human placenta and HeLa cells. The alpha subunits comprise the outer rings of the proteasome. Some alpha subunits contain a functional nuclear localization signal; proteasomes are found in both the nuclear and cytoplasmic compartments of the cell. Alpha subunits may constitute a physical barrier that limits access of cytosolic proteins into the inner proteolytic chamber.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	315138981
NCBI GeneID	5686
NCBI Accession #	NP_001186701.1
NCBI GenBank Nucleotide #	NP_001186701.1
UniProt Accession #	P28066
NCBI Official Full Name	proteasome subunit alpha type-5 isoform 2
NCBI Official Synonym Full Names	proteasome subunit alpha 5
NCBI Official Symbol	PSMA5
NCBI Official Synonym Symbols	PSC5; ZETA
NCBI Protein Information	proteasome subunit alpha type-5
UniProt Protein Name	Proteasome subunit alpha type-5
UniProt Gene Name	PSMA5
UniProt Entry Name	PSA5_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.