

Human Proteasome subunit alpha type-5 (PSMA5) ELISA Kit



Catalog No: #EK8049

Orders: order@signalwayantibody.com

Package Size: #EK8049-1 48T #EK8049-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Proteasome subunit alpha type-5 (PSMA5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC117302; MGC125802; MGC125803; MGC125804; PSC5; ZETA; macropain subunit zeta macropain zeta chain multicatalytic endopeptidase complex zeta chain proteasome alpha 5 subunit proteasome component 5]
Accession No.	P28066
Uniprot	P28066
GeneID	5686;
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.124 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay 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 anyPSMA5 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.**Product Overview:**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.

Note: This product is for in vitro research use only