Human Proteasome subunit alpha type-7 (PSMA7) ELISA Kit

Catalog No: #EK8048

Package Size: #EK8048-1 48T #EK8048-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human Proteasome subunit alpha type-7 (PSMA7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP5-1005F21.4; C6; HSPC; MGC3755; RC6-1; XAPC7; proteasome alpha 7 subunit|proteasome subunit RC6-1|proteasome subunit XAPC7|proteasome subunit alpha 4
Accession No.	O14818
Uniprot	O14818
GeneID	5688;
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:0.156-10 ng/mL

Sensitivity:0.059 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 PSMA7 in samples. An antibody specific for PSMA7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPSMA7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSMA7 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 PSMA7 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. PSMA7 has been shown to interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. In addition, this subunit is involved in regulating hepatitis virus C internal ribosome entry site (IRES) activity, an activity essential for viral replication. This core alpha subunit is also involved in regulating the hypoxia-inducible factor-1alpha, a transcription factor important for cellular responses to oxygen tension. Multiple isoforms of this subunit arising from alternative splicing may exist but alternative transcripts for only two isoforms have been defined. A pseudogene has been identified on chromosome 9.

Note: This product is for in vitro research use only