

Human Proteasome activator complex subunit 3 (PSME3) ELISA Kit



Catalog No: #EK8044

Orders: order@signalwayantibody.com

Package Size: #EK8044-1 48T #EK8044-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Proteasome activator complex subunit 3 (PSME3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Ki; PA28-gamma; PA28G; REG-GAMMA; 11S regulator complex gamma subunit Ki antigen Ki nuclear autoantigen activator of multicatalytic protease subunit 3 proteasome activator 28-gamma proteasome activa
Accession No.	P61289
Uniprot	P61289
GeneID	10197;
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:0.056 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:Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate PSME3 in samples. An antibody specific for PSME3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PSME3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSME3 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 PSME3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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. The immunoproteasome contains an alternate regulator, referred to as the 11S regulator or PA28, that replaces the 19S regulator. Three subunits (alpha, beta and gamma) of the 11S regulator have been

identified. This gene encodes the gamma subunit of the 11S regulator. Six gamma subunits combine to form a homohexameric ring. Two transcript variants encoding different isoforms have been identified.

Note: This product is for in vitro research use only