

Human Low molecular-weight protein/proteasome beta-type subunit (LMP7/PSMB9) ELISA Kit

Catalog No: #EK8046

Orders: order@signalwayantibody.com

Package Size: #EK8046-1 48T #EK8046-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Low molecular-weight protein/proteasome beta-type subunit (LMP7/PSMB9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DADB-223G19.3; LMP2; MGC70470; PSMB6i; RING12; beta1i; low molecular mass protein 2 macropain chain 7 multicatalytic endopeptidase complex chain 7 proteasome beta 9 subunit proteasome catalytic subu
Accession No.	P28065
Uniprot	P28065
GeneID	5698;
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:0.051 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 PSMB9 in samples. An antibody specific for PSMB9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPSMB9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PSMB9 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 PSMB9 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**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.

LMP2 isa member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. LMP2 is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit.

Note: This product is for in vitro research use only