Human G antigen 7 (GAGE7) ELISA Kit

Catalog No: #EK11588

Package Size: #EK11588-1 48T #EK11588-2 96T

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

Description

Product Name	Human G antigen 7 (GAGE7) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CT4.7; GAGE-7; cancer/testis antigen family 4; member 7
Accession No.	O76087
Uniprot	O76087
GeneID	100008586;2579;26748;645073;729428;
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:0.057 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 GAGE7 in samples. An antibody specific for GAGE7 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGAGE7 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GAGE7 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 GAGE7 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Many human tumors express antigens that are recognized in vitro by cytolytic T lymphocytes (CTLs) derived from the tumor-bearing patient. The MAGE (melanoma-specific antigen) and GAGE (G antigen) gene family members encode such antigens. To screen for genes associated with cancer progression, Chen et al. (1998) performed differential display PCR using sublines of the nontumorigenic, prostate-specific antigen (PSA)-secreting cell line LNCaP that differed in androgen sensitivity and metastatic potential. They isolated 2 members of the GAGE family, GAGEB1 and GAGE7. GAGE7 encodes a 117-amino acid polypeptide that contains 3 potential casein kinase phosphorylation sites, 2 potential protein kinase C phosphorylation sites, and 1 potential N-myristoylation site. Levels of GAGE7 mRNA were not correlated to the degree of tumorigenicity of prostate cancer cell lines.

Note: This product is for in vitro research use only