

Human Regulator of G-protein signaling 5 (RGS5) ELISA Kit



Catalog No: #EK7527

Orders: order@signalwayantibody.com

Package Size: #EK7527-1 48T #EK7527-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Regulator of G-protein signaling 5 (RGS5) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-430G6.2; MST092; MST106; MST129; MSTP032; MSTP092; MSTP106; MSTP129; Regulator of G protein signaling-5 regulator of G-protein signalling 5
Accession No.	O15539
Uniprot	O15539
GeneID	8490;
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:0.125 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 RGS5 in samples. An antibody specific for RGS5 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRGS5 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RGS5 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 RGS5 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The regulator of G protein signaling (RGS) proteins are signal transduction molecules that have structural homology to SST2 of Saccharomyces cerevisiae and EGL-10 of Caenorhabditis elegans. Multiple genes homologous to SST2 are present in higher eukaryotes. RGS proteins are involved in the regulation of heterotrimeric G proteins by acting as GTPase activators. The amino acid sequence deduced from the cDNA possessed all consensus motifs of the RGS domain and showed closest homology to mouse Rgs5, with which it was 90% identical, indicating that it represented human RGS5. The mRNA of the human gene is abundantly expressed in heart, lung, skeletal muscle, and small intestine, and at low levels in brain, placenta, liver, colon, and leukocytes.

Note: This product is for in vitro research use only