Human Phosphoacetylglucosamine mutase (PGM3) ELISA Kit

Catalog No: #EK8534

Package Size: #EK8534-1 48T #EK8534-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Human Phosphoacetylglucosamine mutase (PGM3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	AGM1; DKFZp434B187; PAGM; N-acetylglucosamine-phosphate mutase|acetylglucosamine phosphomutase|phosphoacetylglucosamine mutase
Accession No.	O95394
Uniprot	O95394
GeneID	5238;
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:0.078 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 PGM3 in samples. An antibody specific for PGM3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGM3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGM3 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 PGM3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The interaction of erythropoietin (EPO) with the EPO receptor (EPOR) activates multiple signaling cascades. The deduced 542-amino acid AGM1 protein is identical to human N-acetylglucosamine-phosphate mutase . It contains a 10-amino acid segment showing high similarity with the putative active site motif of several hexose phosphate mutases.
Northern blot analysis detected a major, approximately 2.4-kb AGM1 transcript in all human tissues tested except lung, with relatively high expression in pancreas, heart, liver, and placenta, and relatively low expression in brain, skeletal muscle, and kidney. Two minor transcripts of approximately 5 and 8 kb were also found in all tissues except lung.

Note: This product is for in vitro research use only