Horse Phosphoglycerate kinase 2 (PGK2) ELISA Kit

Catalog No: #EK11466

Package Size: #EK11466-1 48T #EK11466-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Horse Phosphoglycerate kinase 2 (PGK2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Horse (Equus caballus; Equine)
Other Names	PGK-2; PGKB; PGKPS; dJ417L20.2; phosphoglycerate kinase 1; pseudogene 2|phosphoglycerate kinase autosomal pseudogene
Accession No.	Q8MIF7
Uniprot	Q8MIF7
GeneID	100036552;
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:15.6-1000 pg/mL

Sensitivity:7.8 pg/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 PGK2 in samples. An antibody specific for PGK2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGK2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGK2 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 PGK2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:The PGK2 gene encodes a testis-specific form of phosphoglycerate kinase (EC 2.7.2.3), which catalyzes the reversible conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate during glycolysis, generating one molecule of ATP.
the PGK2 gene lacks introns and contains characteristics of a processed gene, or 'retroposon,' including the remnants of a poly(A) tail and bounding direct repeats. The structural features were consistent with the notion that this locus arose by reverse transcriptase-mediated processing of a tailored mRNA transcript originally produced by the PGK1 gene.the unusual conservation of function in this processed PGK2 gene and its tissue-specific expression in spermatogenesis may be best explained as a compensatory response to the inactivation of the X-linked PGK1 gene in spermatogenic cells before meiosis.

Note: This product is for in vitro research use only