

# Mouse Phosphoglycerate kinase 1 (PGK1) ELISA Kit

Catalog No: #EK8542



Package Size: #EK8542-1 48T #EK8542-2 96T

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## Description

Product Name	Mouse Phosphoglycerate kinase 1 (PGK1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP4-570L12.1; MGC117307; MGC142128; MGC8947; MIG10; PGKA; cell migration-inducing gene 10 protein primer recognition protein 2
Accession No.	P09411
Uniprot	P09411
GenID	18655;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:47-3000 pg/mL

Sensitivity:11.75 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 PGK1 in samples. An antibody specific for PGK1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGK1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGK1 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 PGK1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The Phosphoglycerate Kinase 1 is a glycolytic enzyme that catalyzes the conversion of 1,3-diphosphoglycerate to 3-phosphoglycerate. The encoded protein may also act as a cofactor for polymerase alpha. This gene lies on the X-chromosome, while a related pseudogene also has been found on the X-chromosome and another on chromosome 19.PGK1 is distinguished from testicular PGK2, which maps to chromosome 6p21.

The deduced protein contains 417 amino acid residues. Southern blot analysis of human genomic DNAs showed a complex pattern of hybridizing fragments, 2 of which were non-X in origin. The results were interpreted as reflecting the existence of a small family of dispersed PGK or PGK-like genes.

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Note: This product is for in vitro research use only