

Human Phosphoglycerate mutase 1 (PGAM1) ELISA Kit

Catalog No: #EK8566

Package Size: #EK8566-1 48T #EK8566-2 96T

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Description

Product Name	Human Phosphoglycerate mutase 1 (PGAM1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP11-452K12.8; PGAM-B; PGAMA; BPG-dependent PGAM 1 phosphoglycerate mutase 1 phosphoglycerate mutase A; nonmuscle form
Accession No.	P18669
Uniprot	P18669
GeneID	5223;
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:1.56-100 ng/mL

Sensitivity:0.58 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 PGAM1 in samples. An antibody specific for PGAM1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGAM1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGAM1 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 PGAM1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Phosphoglyceric acid mutase is widely distributed in mammalian tissues where it catalyzes the reversible reaction of 3-phosphoglycerate (3-PGA) to 2-phosphoglycerate (2-PGA) in the glycolytic pathway. The fact that the PGAMA and GOT1 loci are linked in the mouse supports the assignment of PGAMA to human chromosome 10. PGAM is a dimeric enzyme containing, in different tissues, different proportions of a muscle (MM) isozyme, a brain (BB) isozyme, and a hybrid form (MB). Electrophoresis of normal adult human muscle PGAM shows marked predominance of the MM band with only faint BB and MB bands. In most other human tissues, including brain, liver, erythrocytes, and leukocytes, PGAM-BB is the only demonstrable isozyme. In cardiac muscle extracts, all 3 bands are seen, although PGAM-MM predominates.

Note: This product is for in vitro research use only