Bovine Glycogen phosphorylase, muscle form (PYGM) ELISA Kit

Catalog No: #EK7887

Package Size: #EK7887-1 48T #EK7887-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Bovine Glycogen phosphorylase, muscle form (PYGM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	muscle glycogen phosphorylase|myophosphorylase
Accession No.	P79334
Uniprot	P79334
GeneID	327664;
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:Request Information

Sensitivity:Request Information

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 PYGM in samples. An antibody specific for PYGM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPYGM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PYGM 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 PYGM bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Mutations in the muscle isoform of glycogen phosphorylase (PYGM) are associated with McArdle disease (glycogen storage disease type V). More than 65 mutations in the PYGM gene that lead to McArdle disease have been identified to date.Gautron et al. (1987) isolated muscle phosphorylase cDNA clones from a human cDNA library. Northern blot experiments revealed 1 specific mRNA of 3.4 kb found uniquely in tissues expressing muscle phosphorylase.

The muscle glycogen phosphorylase protein comprises 842 amino acids (Kubisch et al., 1998).Burke et al. (1987) determined the intron/exon structure of the PYGM gene. Kubisch et al. (1998) provided a revised genomic structure for the PYGM gene, which contains 20 exons.

Note: This product is for in vitro research use only