

Bovine Phosphomevalonate kinase (PMVK) ELISA Kit

Catalog No: #EK8405



Package Size: #EK8405-1 48T #EK8405-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Bovine Phosphomevalonate kinase (PMVK) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	HUMPMKI; PMK; PMKA; PMKASE;
Accession No.	Q2KIU2
Uniprot	Q2KIU2
GeneID	513533;
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:1.6-120 ng/mL

Sensitivity:0.8 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 PMVK in samples. An antibody specific for PMVK has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPMVK present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PMVK 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 PMVK bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PMVK (EC 2.7.4.2) is a peroxisomal enzyme that catalyzes the conversion of mevalonate 5-phosphate into mevalonate 5-diphosphate as the fifth reaction of the cholesterol biosynthetic pathway. The deduced 192-amino acid PMVK protein has a calculated molecular mass of about 22 kD. It contains a C-terminal peroxisomal targeting sequence, and a single methionine is removed from the N terminus upon maturation of the protein. Expression was highest in heart and skeletal muscle, with slightly lower levels in liver, kidney, and pancreas, and low but detectable levels in brain, lung, and placenta.Analysis of transcripts from human lymphoblasts subcultured in lipid-depleted sera (LDS) and LDS supplement with lovastatin indicated that PMVK expression is subject to regulation by sterol at the level of transcription.

Note: This product is for in vitro research use only