

Human Pantothenate kinase 4 (PANK4) ELISA Kit

Catalog No: #EK8664



Package Size: #EK8664-1 48T #EK8664-2 96T

Orders: order@signalwayantibody.com

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Description

Product Name	Human Pantothenate kinase 4 (PANK4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RP3-395M20.4; DKFZp547M242; FLJ10782; pantothenic acid kinase
Accession No.	Q9NVE7
Uniprot	Q9NVE7
GeneID	55229;
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:0.156-10 ng/mL

Sensitivity:0.064 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 PANK4 in samples. An antibody specific for PANK4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPANK4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PANK4 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 PANK4 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Pantothenate kinase 4 is a protein belonging to the pantothenate kinase family. Pantothenate kinase is a key regulatory enzyme in the biosynthesis of coenzyme A (CoA) in bacteria and mammalian cells.

It catalyzes the first committed step in the universal biosynthetic pathway leading to CoA and is itself subject to regulation through feedback inhibition by CoA. This family member is most abundant in muscle but is expressed in all tissues.Pantothenate kinase is an essential regulatory enzyme in CoA biosynthesis, catalyzing the cytosolic phosphorylation of pantothenate (vitamin B5), N-pantothenoylcysteine, and pantetheine. PANK4 expression is most abundant in muscle, but it is expressed in all tissues.

Note: This product is for in vitro research use only