

Human Pantothenate Kinase 4 (PANK4) ELISA Kit | PANK4 elisa kit

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CATALOG #
AAA331475

REACTIVITY
Human

PRODUCT SYNONYMS

Pantothenate Kinase 4 (PANK4); Human Pantothenate Kinase 4 (PANK4) ELISA Kit; PANK4; RP3-395M20.4; DKFZp547M242; FLJ10782; pantothenic acid kinase; PANK4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Pantothenate kinase 4 (PANK4) ELISA Kit has high sensitivity and excellent specificity for detection of Human PANK4. No significant cross-reactivity or interference between Human PANK4 and analogues was observed.
Sequence Length	781
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Pantothenate kinase 4 (PANK4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PANK4 elisa kit	Description: This Human Pantothenate kinase 4 (PANK4) ELISA Kit 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 any PANK4 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. Background: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	733216030
NCBI GeneID	55229
NCBI Accession #	NP_060686.2
NCBI GenBank Nucleotide #	NP_060686.2
UniProt Accession #	Q9NVE7
NCBI Official Full Name	pantothenate kinase 4
NCBI Official Synonym Full Names	pantothenate kinase 4
NCBI Official Symbol	PANK4
NCBI Protein Information	pantothenate kinase 4
UniProt Protein Name	Pantothenate kinase 4
UniProt Gene Name	PANK4
UniProt Synonym Gene Names	hPank4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/pantothenate-kinase-4-pank4/331475>