

Recombinant Human PDXK 293 Cell Lysate

Cat. No. PDXK-3317HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for pyridoxal (pyridoxine, vitamin B6) kinase (PDXK) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

PDXK pyridoxal (pyridoxine, vitamin B6) kinase [Homo sapiens]

Official Symbol

PDXK

Synonyms

PDXK; pyridoxal (pyridoxine, vitamin B6) kinase; C21orf97, C21orf124, chromosome 21 open reading frame 97 , chromosome 21 open reading frame 124; pyridoxal kinase; FLJ21324; FLJ31940; MGC15873; PKH; PNK; PRED79; pyridoxine kinase; vitamin B6 kinase; pyridoxamine kinase; C21orf97; C21orf124; FLJ37311; MGC31754; MGC52346; DKFZp566A071;

Gene ID

8566

mRNA Refseq

NM_003681

Protein Refseq

NP_003672

MIM

179020

UniProt ID

O00764

Chromosome Location

21q22.3

Pathway

Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem;

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Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem;
Vitamin B6 metabolism, organism-specific biosystem; Vitamin B6 metabolism,
conserved biosystem; Vitamins B6 activation to pyridoxal phosphate, organism-
specific biosystem;

Function

ATP binding; lithium ion binding; magnesium ion binding; nucleotide binding;
potassium ion binding; protein homodimerization activity; pyridoxal kinase activity;
pyridoxal kinase activity; pyridoxal phosphate binding; sodium ion binding; transferase
activity; zinc ion binding;

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