

Human Pyridoxal kinase ELISA Kit | PDXK elisa kit

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CATALOG #
AAA100309

REACTIVITY
Human

PRODUCT SYNONYMS

Pyridoxal kinase; Human Pyridoxal kinase ELISA Kit; PDXK/Pyridoxal kinase/Pyridoxine kinase/PRED79/C21orf124/C21orf97/PKH/PNK/Vitamin B6 Kinase/HEL-S-1a; PDXK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of PDGFRb. No significant cross-reactivity or interference between PDGFRb and analogues was observed.
Sequence Length	312
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PDGFRb were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PDGFRb were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a PDXK ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.148	0.479	0.725	0.941	1.290	1.763	2.078	2.370

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PDXK elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-PDGFRb antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-PDGFRb antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the PDGFRb amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of PDGFRb can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505701
NCBI GeneID	8566
NCBI Accession #	NP_003672.1
NCBI GenBank Nucleotide #	NM_003681.4
Molecular Weight	26,827 Da
NCBI Official Full Name	pyridoxal kinase
NCBI Official Synonym Full Names	pyridoxal (pyridoxine, vitamin B6) kinase
NCBI Official Symbol	PDXK
NCBI Official Synonym Symbols	PKH; PNK; PRED79; C21orf97; HEL-S-1a; C21orf124
NCBI Protein Information	pyridoxal kinase
UniProt Protein Name	Pyridoxal kinase
UniProt Gene Name	PDXK
UniProt Synonym Gene Names	C21orf124; C21orf97; PKH; PNK
UniProt Entry Name	PDXK_HUMAN

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/pdxk-human-elisa-kits/pyridoxal-kinase/100309>