

Product datasheet for **CF502998**

PDXK Mouse Monoclonal Antibody [Clone ID: OTI5H5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5H5
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PDXK(NP_03672) produced in HEK293 cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	34.9 kDa
Gene Name:	Homo sapiens pyridoxal kinase (PDXK), transcript variant 1, mRNA.
Database Link:	NP_003672 Entrez Gene 83578 Rat Entrez Gene 216134 Mouse Entrez Gene 8566 Human O00764



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Background:

The protein encoded by this gene phosphorylates vitamin B6, a step required for the conversion of vitamin B6 to pyridoxal-5-phosphate, an important cofactor in intermediary metabolism. The encoded protein is cytoplasmic and probably acts as a homodimer. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Synonyms:

C21orf97; C21orf124; HEL-S-1a; PKH; PNK; PRED79

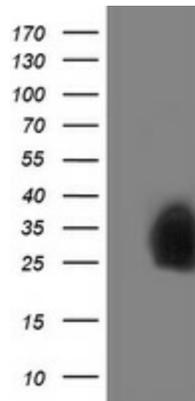
Protein Families:

Druggable Genome

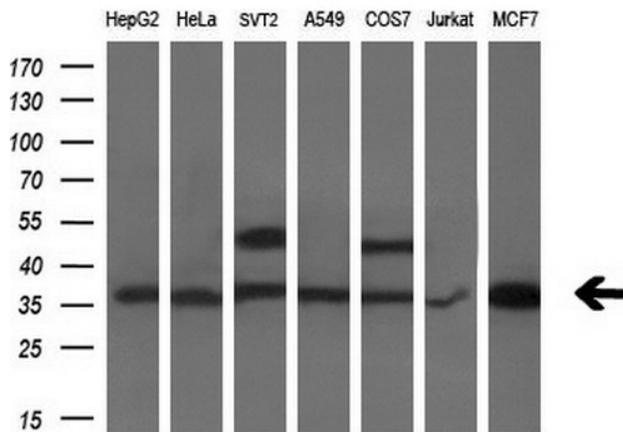
Protein Pathways:

Metabolic pathways, Vitamin B6 metabolism

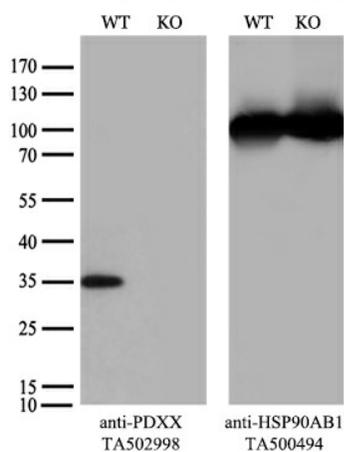
Product images:



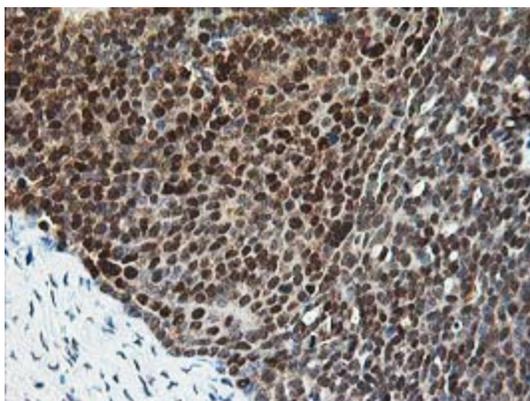
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PDXK (Cat# [RC200975], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDXK (Cat# [TA502998]). Positive lysates [LY418499] (100ug) and [LC418499] (20ug) can be purchased separately from OriGene.



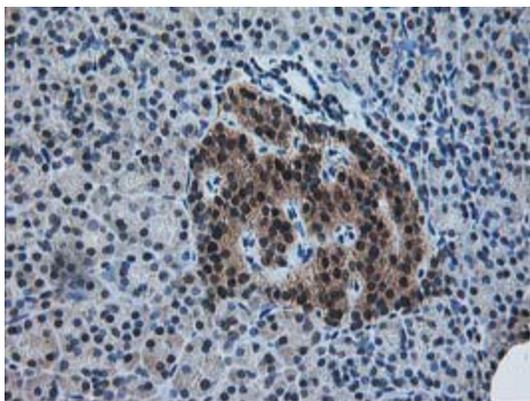
Western blot analysis of extracts (10ug) from 7 different cell lines by using anti-PDXK monoclonal antibody (1:200).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and PDXK-Knockout HEK293T cells (KO, Cat# [LC841087]) were separated by SDS-PAGE and immunoblotted with anti-PDXK monoclonal antibody [TA502998] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



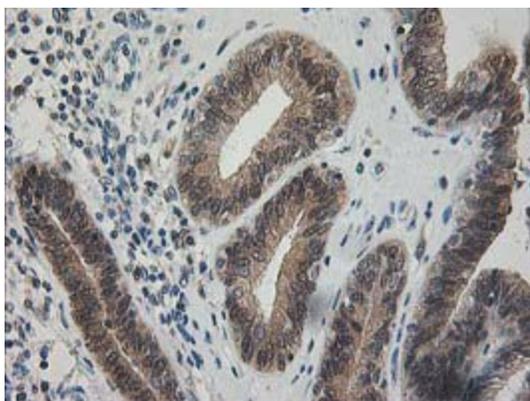
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502998])



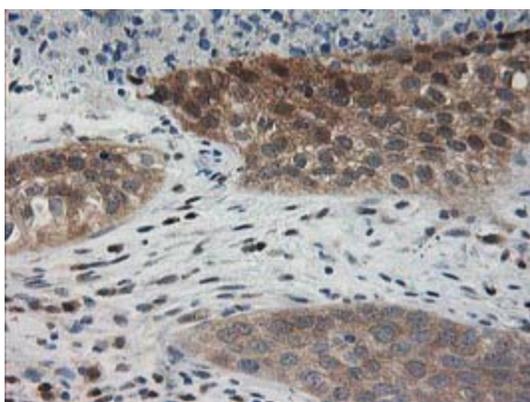
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502998])



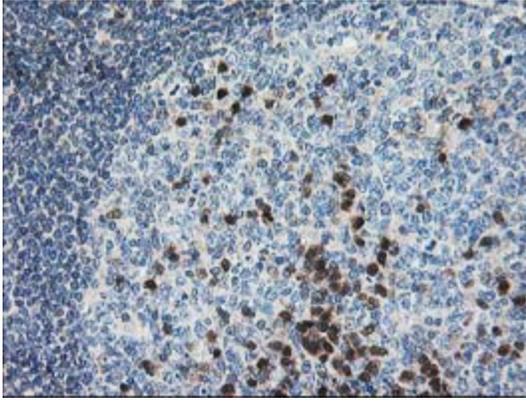
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502998])



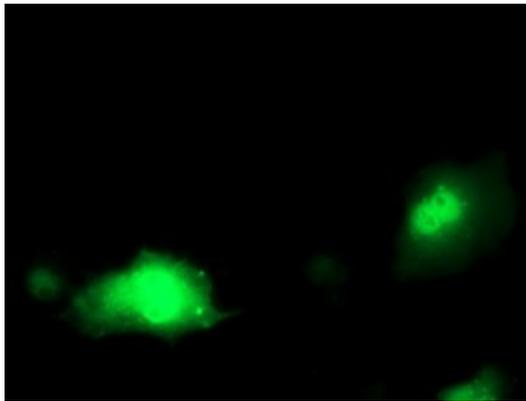
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502998])



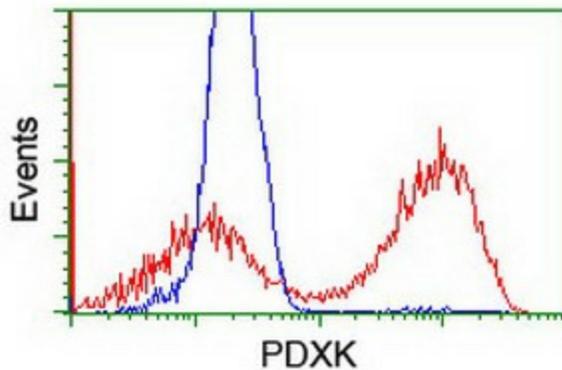
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502998])



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502998])



Anti-PDXK mouse monoclonal antibody ([TA502998]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PDXK ([RC200975]).



HEK293T cells transfected with either [RC200975] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDXK antibody ([TA502998]), and then analyzed by flow cytometry.