

## Product datasheet for **TA503031S**

### **PDXK Mouse Monoclonal Antibody [Clone ID: OTI3G2]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3G2
<b>Applications:</b>	FC, IHC, WB
<b>Recommended Dilution:</b>	WB 1:2000, IHC 1:150, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human PDXK (NP_003672) produced in HEK293T cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	0.45 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	34.9 kDa
<b>Gene Name:</b>	pyridoxal kinase
<b>Database Link:</b>	<a href="#">NP_003672</a> <a href="#">Entrez Gene 83578 Rat</a> <a href="#">Entrez Gene 216134 Mouse</a> <a href="#">Entrez Gene 8566 Human</a> <a href="#">O00764</a>
<b>Background:</b>	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]



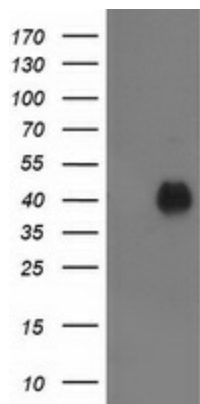
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**Synonyms:** C21orf97; C21orf124; HEL-S-1a; PKH; PNK; PRED79

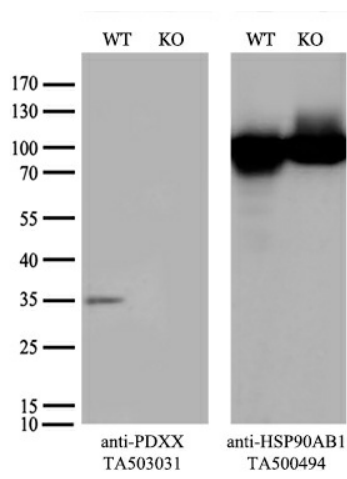
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Vitamin B6 metabolism

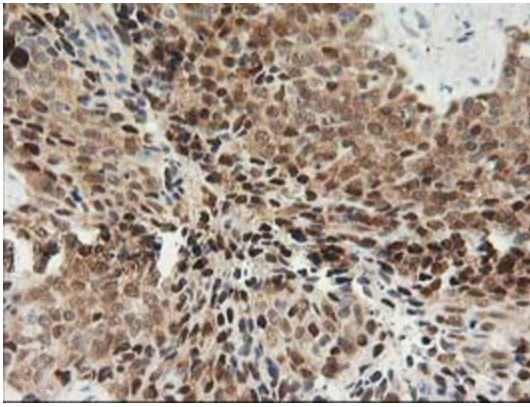
**Product images:**



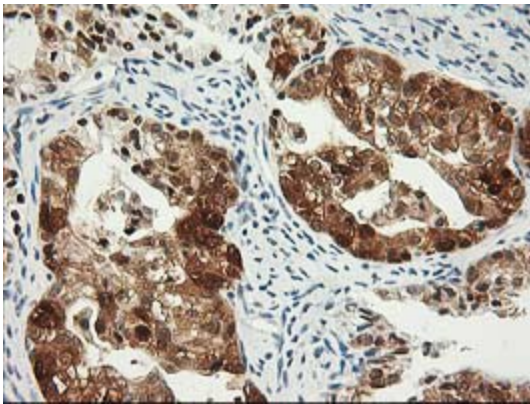
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDXK ([RC200975], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDXK. Positive lysates [LY418499] (100ug) and [LC418499]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



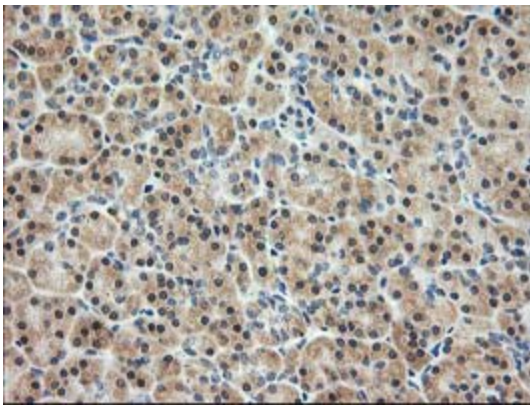
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and PDXK-Knockout HEK293T cells (KO, Cat# [LC841087]) were separated by SDS-PAGE and immunoblotted with anti-PDXK monoclonal antibody [TA503031] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



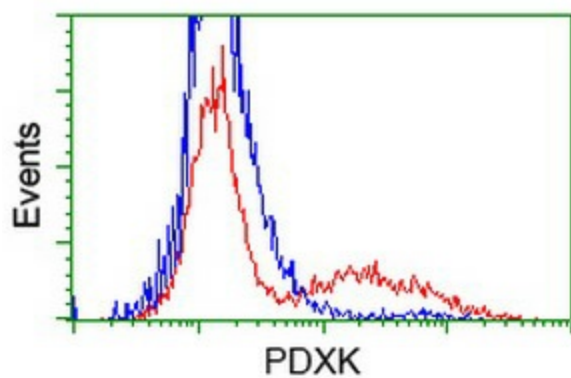
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PDXK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503031])



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, [TA503031])



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, [TA503031])



HEK293T cells transfected with either [RC200975] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PDXK antibody ([TA503031]), and then analyzed by flow cytometry.