**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for TA503031

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

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI3G2 |
| **Applications:** | FC, IHC, WB |
| **Recommended Dilution:** | WB 1:2000, IHC 1:150, FLOW 1:100 |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Full length human recombinant protein of human PDXK (NP_003672) produced in HEK293T cell. |
| **Formulation:** | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| **Concentration:** | 0.45 mg/ml |
| **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:** | pyridoxal kinase |
| **Database Link:** | NP_003672<br>Entrez Gene 83578 RatEntrez Gene 216134 MouseEntrez Gene 8566 Human<br>O00764 |
| **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] |

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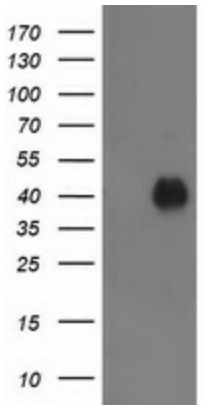
**Synonyms:** C21orf97; C21orf124; HEL-S-1a; PKH; PNK; PRED79

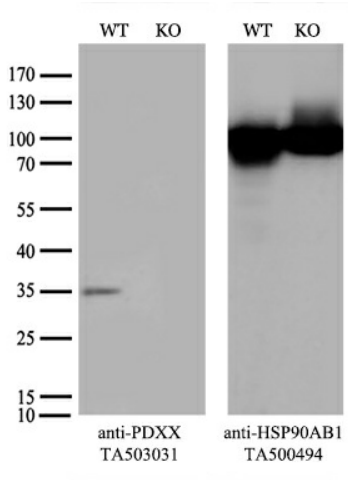
**Protein Families:** Druggable Genome

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

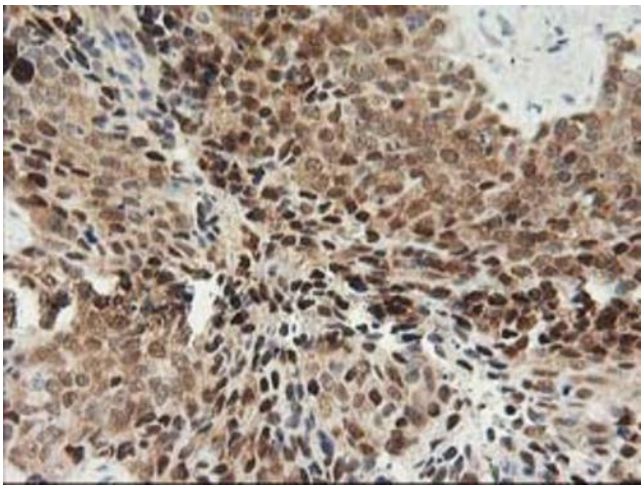
## Product images:



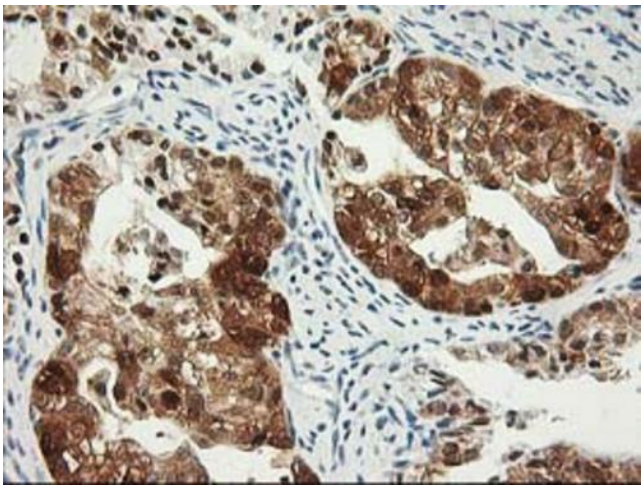

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDXK ([RC200975], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDXK. Positive lysates [LY418499] (100ug) and [LC418499]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



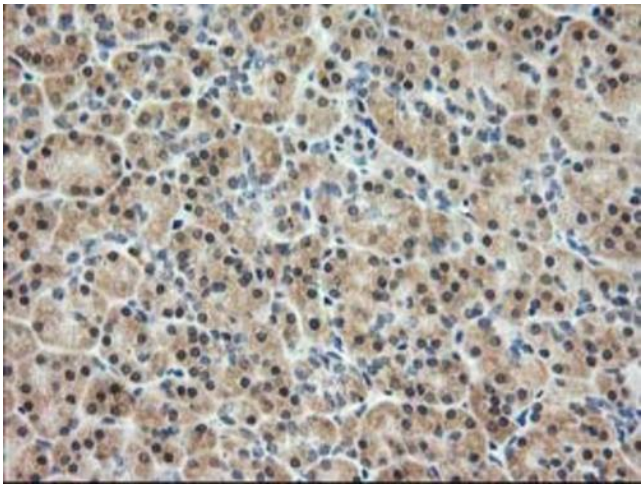

Equivalent amounts of cell lysates (10 ug per lane) of wild-type HEK293T cells (WT, Cat# LC810293T) and PDXK-Knockout HEK293T cells (KO, Cat# [LC841087]) were separated by SDS-PAGE and immunoblotted with anti-PDXK monoclonal antibody TA503031 (1:500). Then the blotted membrane was stripped and reprobed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



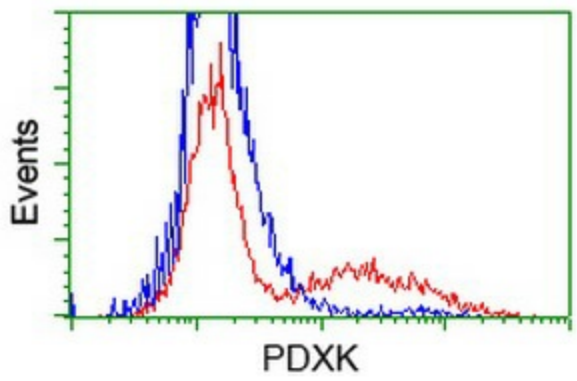
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PDXK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PDXK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PDXK mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.




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.