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Product datasheet for TA503982BM

PFKP Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI1D6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D6
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PFKP(NP_002618) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85.4 kDa
Gene Name:	phosphofructokinase, platelet
Database Link:	NP_002618 Entrez Gene 5214 Human Q01813

View online »

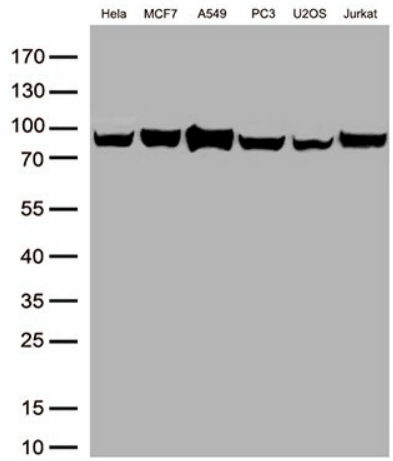
Background: The PFKP gene encodes the platelet isoform of phosphofructokinase (PFK) (ATP:D-fructose-6-phosphate-1-phosphotransferase, EC 2.7.1.11). PFK catalyzes the irreversible conversion of fructose-6-phosphate to fructose-1,6-bisphosphate and is a key regulatory enzyme in glycolysis. The PFKP gene, which maps to chromosome 10p, is also expressed in fibroblasts. See also the muscle (PFKM; MIM 610681) and liver (PFKL; MIM 171860) isoforms of phosphofructokinase, which map to chromosomes 12q13 and 21q22, respectively. Vora (1981) [PubMed 6451249] determined that full tetrameric phophofructokinase enzyme expressed in platelets can be composed of subunits P4, P3L, and P2L2. [supplied by OMIM]

Synonyms: ATP-PFK; PFK-C; PFK-P; PFKF

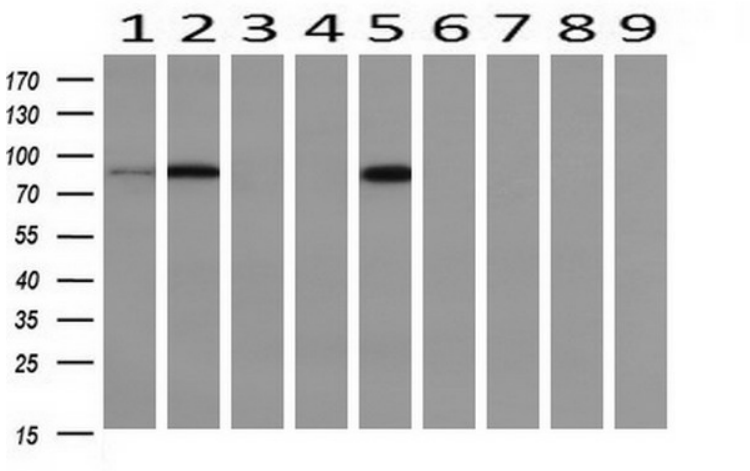
Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

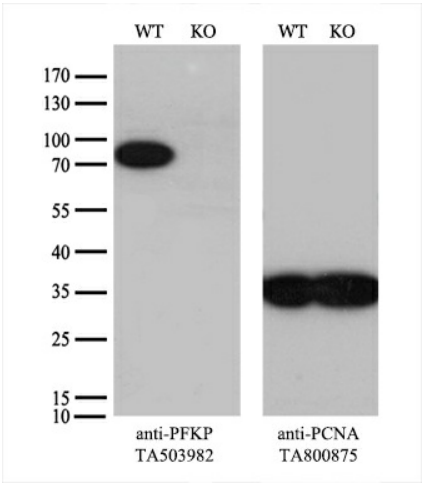
Product images:



Western blot analysis of extracts (50ug per lane) from 6 cell lines lysates by using anti-PFKP monoclonal antibody([TA503982], 1:500)



Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-PFKP monoclonal antibody at 1:200 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and PFKP-Knockout HeLa cells (KO, Cat# [LC831752]) were separated by SDS-PAGE and immunoblotted with anti-PFKP monoclonal antibody [TA503982] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.

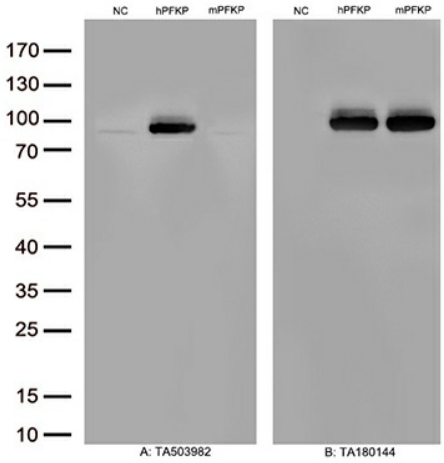
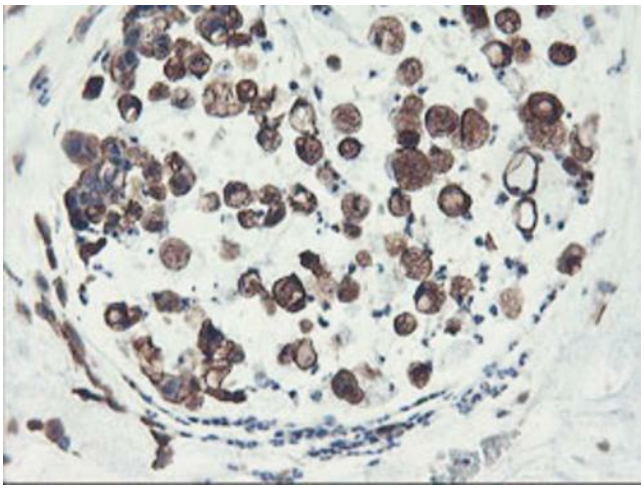
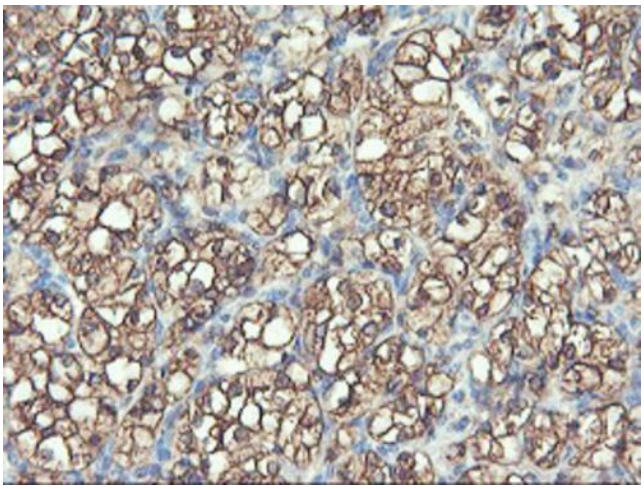


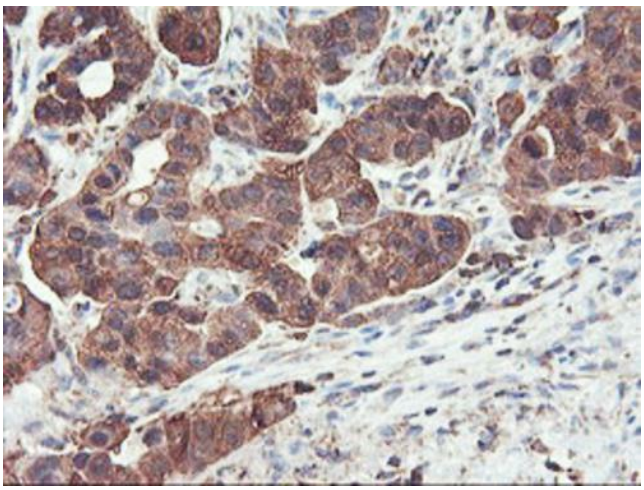
Figure A, Western blot analysis of overexpressed lysates(15ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human PFKP plasmid ([RC200673], hPFKP), mouse PFKP plasmid ([MR210641], mPFKP) using anti-PFKP antibody [TA503982](1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)



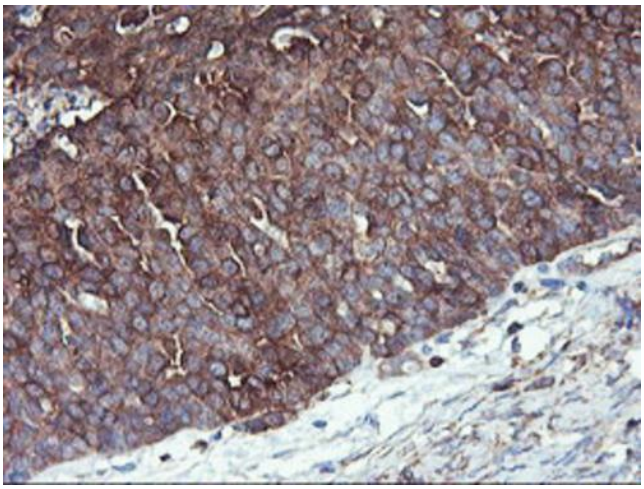
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



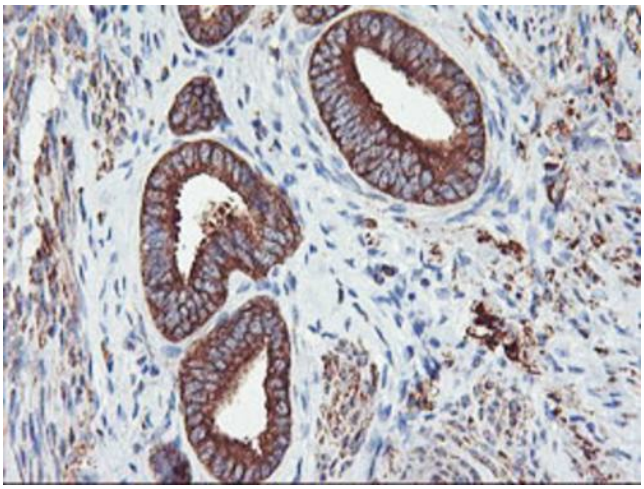
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



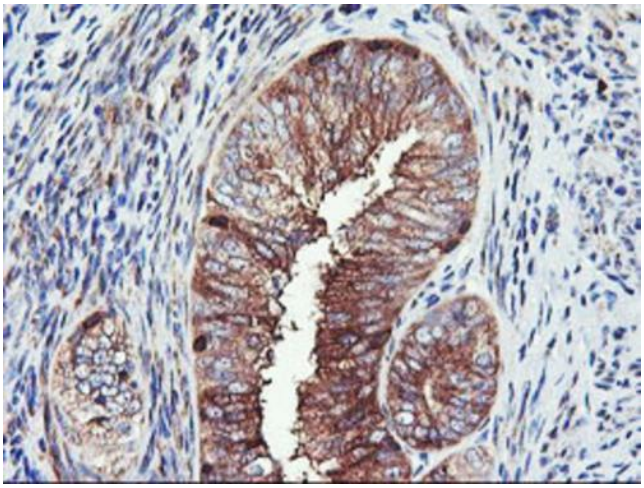
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



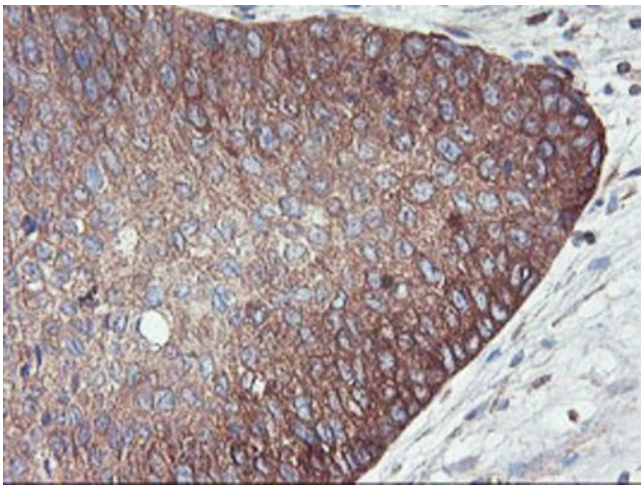
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



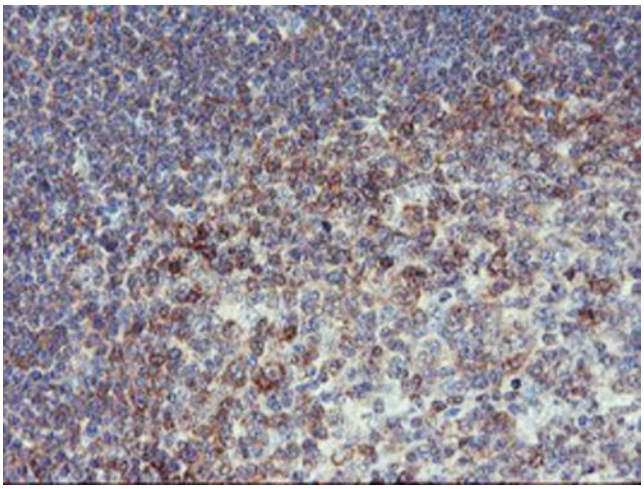
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



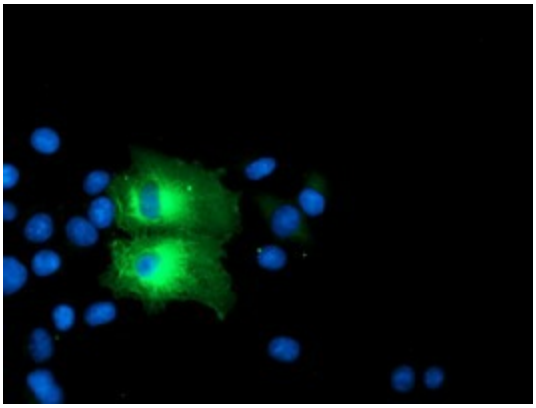
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



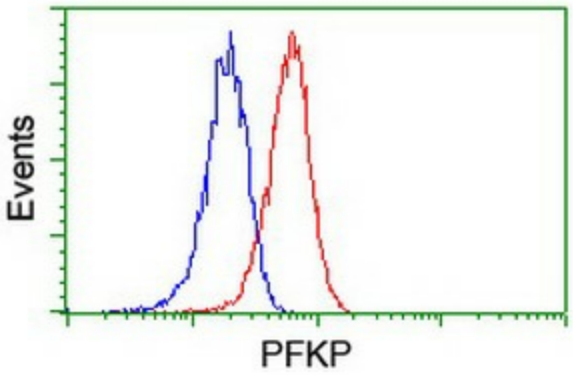
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-PFKP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



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



Anti-PFKP mouse monoclonal antibody ([TA503982]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PFKP ([RC200673]).



Flow cytometric Analysis of Jurkat cells, using anti-PFKP antibody ([TA503982]), (Red), compared to a nonspecific negative control antibody, (Blue).