

## PFK-C Polyclonal Antibody

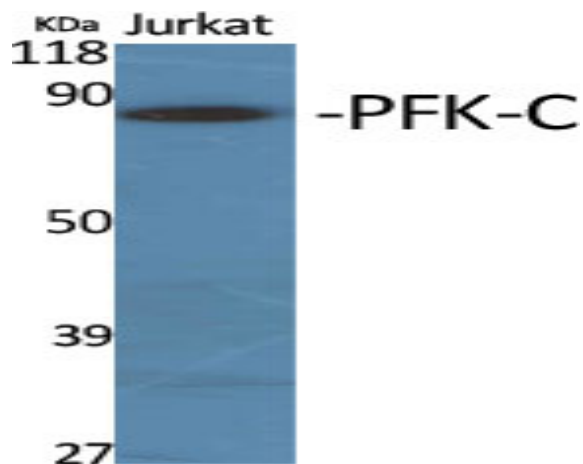
<b>Catalog No :</b>	YT3686
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	PFK-C
<b>Fields :</b>	>>Glycolysis / Gluconeogenesis;>>Pentose phosphate pathway;>>Fructose and mannose metabolism;>>Galactose metabolism;>>Metabolic pathways;>>Carbon metabolism;>>Biosynthesis of amino acids;>>RNA degradation;>>HIF-1 signaling pathway;>>AMPK signaling pathway;>>Thyroid hormone signaling pathway;>>Glucagon signaling pathway;>>Central carbon metabolism in cancer
<b>Gene Name :</b>	PFKP
<b>Protein Name :</b>	6-phosphofructokinase type C
<b>Human Gene Id :</b>	5214
<b>Human Swiss Prot No :</b>	Q01813
<b>Mouse Gene Id :</b>	56421
<b>Mouse Swiss Prot No :</b>	Q9WUA3
<b>Rat Gene Id :</b>	60416
<b>Rat Swiss Prot No :</b>	P47860
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human K6PP. AA range:341-390
<b>Specificity :</b>	PFK-C Polyclonal Antibody detects endogenous levels of PFK-C protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

---

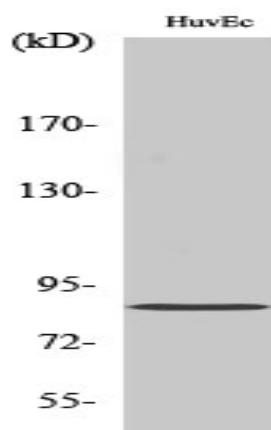
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	84kD
<b>Cell Pathway :</b>	Glycolysis / Gluconeogenesis;Pentose phosphate pathway;Fructose and mannose metabolism;Galactose metabolism;
<b>Background :</b>	This gene encodes a member of the phosphofructokinase A protein family. The encoded enzyme is the platelet-specific isoform of phosphofructokinase and plays a key role in glycolysis regulation. This gene may play a role in metabolic reprogramming in some cancers, including clear cell renal cell carcinomas, and cancer of the bladder, breast, and lung. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016],
<b>Function :</b>	catalytic activity:ATP + D-fructose 6-phosphate = ADP + D-fructose 1,6-bisphosphate.,cofactor:Magnesium.,enzyme regulation:Allosteric enzyme activated by ADP, AMP, or fructose bisphosphate and inhibited by ATP or citrate.,miscellaneous:In human PFK exists as a system of 3 types of subunits, PFKM (muscle), PFKL (liver) and PFKP (platelet) isoenzymes.,pathway:Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glycerone phosphate from D-glucose: step 3/4.,similarity:Belongs to the phosphofructokinase family. Two domains subfamily.,subunit:Tetramer. Muscle is M4, liver is L4, and red cell is M3L, M2L2, or ML3. A subunit composition with a higher proportion of platelet type subunits is found in platelets, brain and fibroblasts.,
<b>Subcellular Location :</b>	Cytoplasm .
<b>Expression :</b>	Brain,Epithelium,Kidney,Pancreatic islet,Placenta,Prostate,
<b>Sort :</b>	11857
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

---

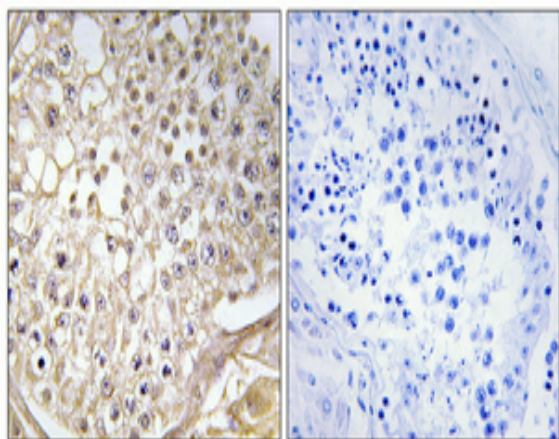
## Products Images



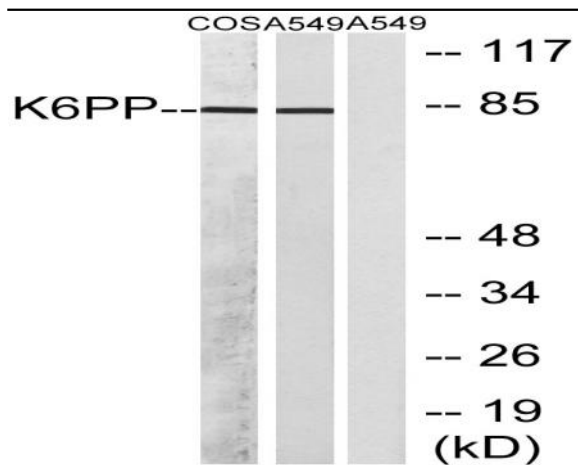
Western Blot analysis of various cells using PFK-C Polyclonal Antibody



Western Blot analysis of HuvEc cells using PFK-C Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human testis. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from A549 and COS7 cells, using K6PP Antibody. The lane on the right is blocked with the synthesized peptide.