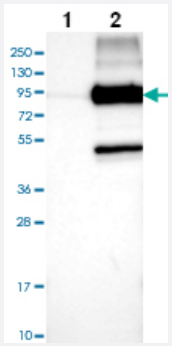
PFKP polyclonal antibody

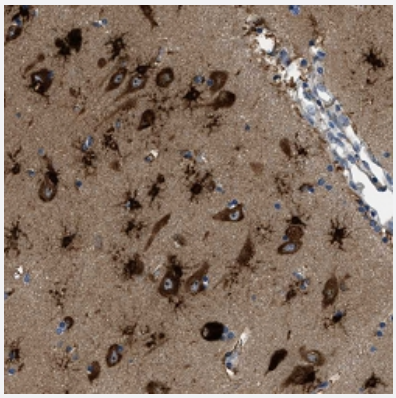
Catalog # PAB28016 Size 100 uL

Applications



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: Negative control (vector only transfected HEK293T lysate) Lane 2: Over-expression Lysate (Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells with PFKP polyclonal antibody (Cat # PAB28016).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human hippocampus with PFKP polyclonal antibody (Cat # PAB28016) shows strong cytoplasmic and dot like nucleolar positivity in neuronal cells and strong cytoplasmic staining in glial cells.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant PFKP.
Immunogen	Recombinant protein corresponding to amino acids of human PFKP
Sequence	SILGTKRVLPGKYLEEIATQMRTHSINALLIIGGFEAYLGLLELSAAREKHEEFCVPMVMVPATVSNN VPGS
Host	Rabbit
Reactivity	Human

Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50 - 1:200) Western Blot (1:100 - 1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2, (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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Gene Info — PFKP

Entrez GeneID	5214
Gene Name	PFKP
Gene Alias	FLJ40226, PFK-C, PFKF
Gene Description	phosphofructokinase, platelet
Omim ID	171840
Gene Ontology	Hyperlink

Gene Summary	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
Other Designations	OTTHUMP00000018966|Phosphofructokinase, platelet type

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Fructose and mannose metabolism
- Galactose metabolism
- Glycolysis / Gluconeogenesis
- Metabolic pathways
- Pentose phosphate pathway

Disease

- Alzheimer Disease
- Birth Weight
- Cardiovascular Diseases
- Diabetes Mellitus

- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Obesity
- Overweight