

Product datasheet for **TA308655**

PFKM Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB:1:1000-1:10000
Reactivity:	Human, Mouse (Predicted: Chicken, Dog, Pig, Rat, Xenopus, Bovine)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment corresponding to a region within amino acids 1 and 253 of PFK (muscle) (Uniprot ID#P08237)
Formulation:	1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85 kDa
Gene Name:	phosphofructokinase, muscle
Database Link:	NP_000280 Entrez Gene 18642 MouseEntrez Gene 65152 RatEntrez Gene 403849 DogEntrez Gene 5213 Human P08237



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Background:

The PFKM gene encodes the muscle 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. Mammalian PFK is a tetramer made up of various combinations of 3 subunits: muscle (PFKM), liver (PFKL; MIM 171860), and platelet (PFKP; MIM 171840), the genes for which are located on chromosomes 12q13, 21q22, and 10p, respectively. The composition of the tetramers differs according to the tissue type. Muscle and liver PFK are homotetramers of 4M and 4L subunits, respectively. Erythrocytes contain both L and M subunits, which randomly tetramerize to form M4, L4, and M3L, M2L2, and ML3 hybrid forms of the holoenzyme (Vora et al., 1980 [PubMed 6444721]; Raben and Sherman, 1995 [PubMed 7550225]). [supplied by OMIM]

Synonyms:

ATP-PFK; GSD7; PFK-1; PFK1; PFKA; PFKX; PPP1R122

Note:

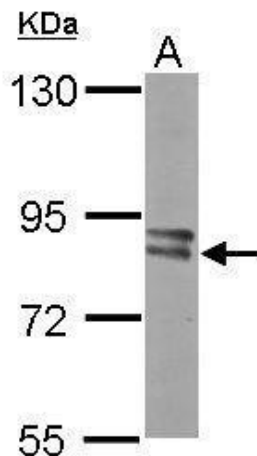
Seq homology of immunogen across species: Chicken (88%), Dog (97%), Pig (95%), Rat (94%), *Xenopus laevis* (89%), Bovine (96%)

Protein Families:

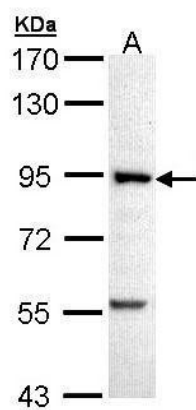
Druggable Genome

Protein Pathways:

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

Product images:

Sample (50 ug of whole cell lysate). A: Mouse brain. 7.5% SDS PAGE. TA308655 diluted at 1:2000.



Sample (30 ug of whole cell lysate). A: A431. 7.5% SDS PAGE. TA308655 diluted at 1:5000.