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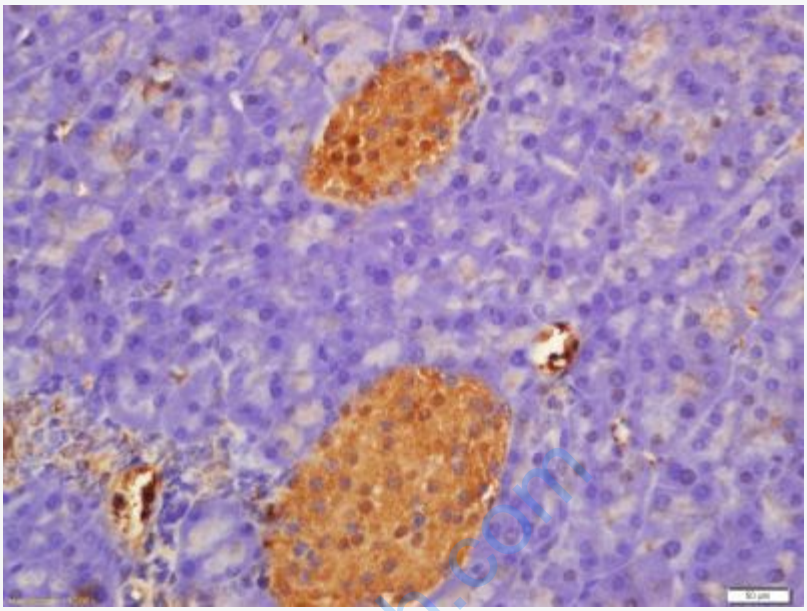
Rabbit Anti-phospho-PFKM/PFK1 (Ser775) antibody

SL16457R

Product Name:	phospho-PFKM/PFK1 (Ser775)
Chinese Name:	磷酸化肌肉型6磷酸果糖激酶/磷酸果糖激酶1抗体
Alias:	PFKM (phospho S775); PFKM (phospho Ser775); p-PFKM (Ser775); Fructose 6 Phosphate Kinase; 6 Phosphofructokinase Muscle Type; GSD7; PFKA; PFK-A; PFKP; PFKX; Phosphofructo 1 Kinase Isozyme A; Phosphofructo-1-kinase isozyme A; Phosphofructokinase 1; Phosphofructokinase M; Phosphofructokinase-M; Phosphofructokinase, muscle; Phosphofructokinase, muscle type; Phosphofructokinase, polypeptide X; Phosphohexokinase; PFKAM_HUMAN; 6-phosphofructokinase, muscle type; PFK1; PFK-1; ATP-PFK; PPP1R122.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	86kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PFKM around the phosphorylation site of Ser775:KR(p-S)GE
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Three phosphofructokinase isozymes exist in humans: muscle, liver and platelet. These isozymes function as subunits of the mammalian tetramer phosphofructokinase, which catalyzes the phosphorylation of fructose-6-phosphate to fructose-1,6-bisphosphate. Tetramer composition varies depending on tissue type. This gene encodes the muscle-type isozyme. Mutations in this gene have been associated with glycogen storage disease type VII, also known as Tarui disease. Alternatively spliced transcript variants have been described.[provided by RefSeq, Nov 2009] **Function:** Catalyzes the third step of glycolysis, the phosphorylation of fructose-6-phosphate (F6P) by ATP to generate fructose-1,6-bisphosphate (FBP) and ADP. **Subunit:** Homo- and heterotetramers. Muscle is M4, liver is L4, and red cell is M3L, M2L2, or ML3. Interacts (via C-terminus) with HK1 (via N-terminal spermatogenic cell-specific region) **Subcellular Location:** Cytoplasm. **Post-translational modifications:** GlcNAcylation decreases enzyme activity. **DISEASE:** Glycogen storage disease 7 (GSD7) [MIM:232800]: A metabolic disorder characterized by exercise intolerance with associated nausea and vomiting, muscle cramping, exertional myopathy and compensated hemolysis. Short bursts of intense activity are particularly difficult. Severe muscle cramps and myoglobinuria develop after vigorous exercise. **Similarity:** Belongs to the phosphofructokinase type A (PFKA) family. ATP-dependent PFK group I subfamily. Eukaryotic two domain clade 'E' sub-subfamily. **SWISS:** P08237 **Gene ID:** 5213 **Database links:** Entrez Gene: 506544 Cow

	Entrez Gene: 403849 Dog Entrez Gene: 100034116 Horse Entrez Gene: 5213 Human Entrez Gene: 18642 Mouse Entrez Gene: 733601 Pig Entrez Gene: 100345647 Rabbit Entrez Gene: 65152 Rat Omim: 610681 Human SwissProt: Q0IIG5 Cow SwissProt: P52784 Dog SwissProt: Q867C9 Horse SwissProt: P08237 Human SwissProt: P47857 Mouse SwissProt: Q2HYU2 Pig SwissProt: P00511 Rabbit SwissProt: P47858 Rat Unigene: 75160 Human Unigene: 272582 Mouse Unigene: 11004 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:	 Tissue/cell: Rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-phospho-PFKL (Ser775) Polyclonal Antibody, Unconjugated(SL16457R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining