bs-3982R **[Primary Antibody]**

PFKM/PFK1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5213 **SWISS:** P08237

Target: PFKM/PFK1

Immunogen: KLH conjugated synthetic peptide derived from human 6 Phosphofructokinase Muscle Type: 701-780/780.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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]

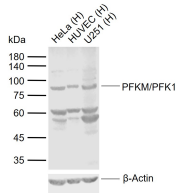
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken)

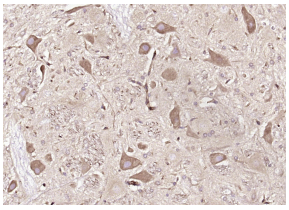
Predicted MW.: 86 kDa

Subcellular Location: Cytoplasm

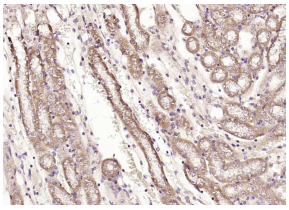
VALIDATION IMAGES



Sample: Lane 1: Human HeLa cell lysates Lane 2: Human HUVEC cell lysates Lane 3: Human U251 cell lysates Primary: Anti-PFKM/PFK1 (bs-3982R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 86 kDa Observed band size: 85 kDa



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PFKM PFK1) Polyclonal Antibody, Unconjugated (bs-3982R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PFKM PFK1) Polyclonal Antibody, Unconjugated (bs-3982R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.6]** Wenxia Li. et al. Transcriptome Analysis Revealed Potential Genes of Skeletal Muscle Thermogenesis in Mashen Pigs and Large White Pigs under Cold Stress. INT J MOL SCI. 2023 Jan;24(21):15534 WB ;Pig. 37958518
- **[IF=5.7]** Xixi Wang. et al. Probing Selenium-Deficient Chicken Spleen Th1/Th17 Differentiation Based on Selenoprotein W Targeting of PKM2/HIF1α. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX WB ;Chicken. 39441563
- **[IF=3.483]** Qiu F et al. Metabolic effects of mulberry branch bark powder on diabetic mice based on GC-MS metabolomics approach. Nutr Metab (Lond). 2019 Jan 31;16:10. WB ;Mouse. 30733818