bs-3331R **[Primary Antibody]**

phospho-PFKFB3/PFK2 (Ser467) Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5209 **SWISS:** Q16875

Target: PFKFB3/PFK2 (Ser467)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human PFK2 around the phosphorylation site of Ser467: LA(p-S)PE.

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: The protein encoded by this gene belongs to a family of bifunctional proteins that are involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate (F2,6BP), and a fructose-2,6-biphosphatase activity that catalyzes the degradation of F2,6BP. This protein is required for cell cycle progression and prevention of apoptosis. It functions as a regulator of cyclin-dependent kinase 1, linking glucose metabolism to cell proliferation and survival in tumor cells. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2016]

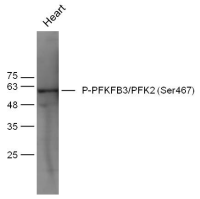
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

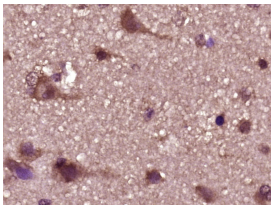
Predicted MW.: 60 kDa

Subcellular Location: Cytoplasm ,Nucleus

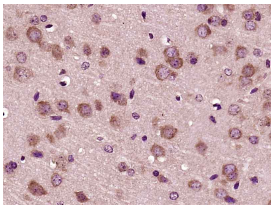
VALIDATION IMAGES



Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti- Phospho-PFKFB3/PFK2 (Ser467) (bs-3331R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 60 kD



Paraformaldehyde-fixed, paraffin embedded (Human glioma); 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 (Phospho-PFKFB3 PFK2 (Ser467)) Polyclonal Antibody, Unconjugated (bs-3331R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (Phospho-PFKFB3/PFK2 (Ser467)) Polyclonal Antibody, Unconjugated (bs-3331R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=7.7]** Shintaro Watanuki. et al. Context-dependent modification of PFKFB3 in hematopoietic stem cells promotes anaerobic glycolysis and ensures stress hematopoiesis. ELIFE. 2024 Apr ICC ;Mouse. 38573813
- **[IF=4.6]** Fu, Wen, et al. "Bioenergetic mechanisms in astrocytes may contribute to amyloid plaque deposition and toxicity." Journal of Biological Chemistry (2015): jbc-M114. Other ;Human. 25814669

- **[IF=3.546]** Yi,et al.The EMT-related transcription factor snail up-regulates FAPα in malignant melanoma cells.(2018) Experimental Cell Research. 364:160-167. IHC ;Human. 29410133
- **[IF=4.129]** Jiang, Bin. et al. Role of Proximal Intestinal Glucose Sensing and Metabolism in the Blood Glucose Control in Type 2 Diabetic Rats After Duodenal Jejunal Bypass Surgery. Obes Surg. 2022 Jan;:1-11 WB ;Rat. 35080701
- **[IF=3.231]** Lifang Li. et al. Changes in the Expression of MIF and Other Key Enzymes of Energy Metabolism in the Myocardia of Broiler Chickens with Ascites Syndrome. ANIMALS. 2022 Jan;12(19):2488 WB ;Chicken. 36230229