bs-3993R **[Primary Antibody]**

Hexokinase 2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3099 **SWISS:** P52789

Target: Hexokinase 2

Immunogen: KLH conjugated synthetic peptide derived from human Hexokinase 2: 101-200/917.

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 hexokinases utilize Mg-ATP as a phosphoryl donor to catalyze the first step of intracellular glucose metabolism, the conversion of glucose to glucose-6-phosphate. Four hexokinase isoenzymes have been identified, including hexokinase I (HXK I), hexokinase II (HXK II), hexokinase III (HXK III) and hexokinase IV (HXK IV, also designated glucokinase or GCK). Hexokinases I-III each contain an N-terminal cluster of hydrophobic amino acids. Glucokinase lacks the N-terminal hydrophobic cluster. The hydrophobic cluster is thought to be necessary for membrane binding. This is substantiated by the finding that glucokinase has lower affinity for glucose than do the other hexokinases. HXK I has been shown to be expressed in brain, kidney and heart tissues as well as in hepatoma cell lines. HXK II is involved in the uptake and utilization of glucose by adipose and skeletal tissues. Of the hexokinases, HXK III has the highest affinity for glucose. Glucokinase is expressed in pancreatic beta cells where it functions as a glucose sensor, determining the "set point" for insulin secretion.

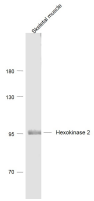
Applications: **WB** (1:500-2000)

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

Predicted MW.: 101 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: Skeletal muscle (Mouse) Lysate at 40 ug Primary: Anti-Hexokinase 2 (bs-3993R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 101 kD Observed band size: 101 kD

SELECTED CITATIONS

- **[IF=8.755]** Ping Xu. et al. AMPK regulates homeostasis of invasion and viability in trophoblasts by redirecting glucose metabolism: Implications for pre-eclampsia. CELL PROLIFERAT. 2022 Dec;:e13358 WB ;Mouse, Human. 36480593
- **[IF=6.814]** Guo-Jian Jiang. et al. Ultraviolet B irradiation induces senescence of human corneal endothelial cells in vitro by DNA damage response and oxidative stress. J PHOTOCH PHOTOBIO B. 2022 Oct;235:112568 WB ;Human. 36137302

- **[IF=3.6]** Fei Gao. et al. Circ_0001982 aggravates breast cancer development through the circ_0001982-miR-144-3p-GSE1 axis. J BIOCHEM MOL TOXIC. 2023 Oct;:e23565 WB ;Human. 37867456
- **[IF=2.754]** Wu, Guoxian. et al. Circ-RNF111 aggravates the malignancy of gastric cancer through miR-876-3p-dependent regulation of KLF12. World J Surg Oncol. 2021 Dec;19(1):1-12 WB ;Human. 34461926
- **[IF=2.314]** Che H et al. circ_0080145 Enhances Imatinib Resistance of Chronic Myeloid Leukemia by Regulating miR-326/PPFIA1 Axis. Cancer Biother Radiopharm. 2020 Jun 27. WB ;Human. 32598170