

bs-0173R**[Primary Antibody]****IRS-2 Rabbit pAb**

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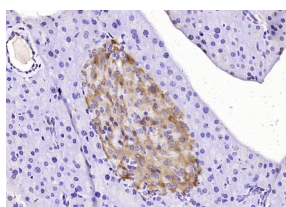
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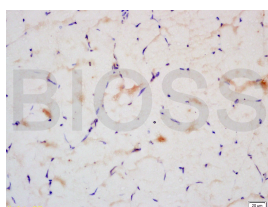
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— DATASHEET —

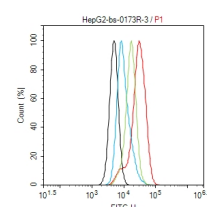
Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500)
Clonality: Polyclonal		IHC-F (1:100-500)
GeneID: 8660	SWISS: Q9Y4H2	IF (1:100-500)
Target: IRS-2		Flow-Cyt (1µg/Test)
Immunogen: KLH conjugated synthetic peptide derived from human IRS-2: 501-600/1324.		Reactivity: Human, Mouse, Rat
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 146 kDa
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.		Subcellular Location: Cytoplasm
Background: The family of insulin receptor substrates (IRSs) has been reported to play important roles for signal transduction of various hormones. Four members of the IRS family have been described. Each IRS is believed to have different functions; however, the distinct physiological roles of each IRS are unclear. Summary: This gene encodes the insulin receptor substrate 2, a cytoplasmic signaling molecule that mediates effects of insulin, insulin-like growth factor 1, and other cytokines by acting as a molecular adaptor between diverse receptor tyrosine kinases and downstream effectors. The product of this gene is phosphorylated by the insulin receptor tyrosine kinase upon receptor stimulation, as well as by an interleukin 4 receptor-associated kinase in response to IL4 treatment.		

— VALIDATION IMAGES —

Paraformaldehyde-fixed, paraffin embedded (mouse pancreas tissue); 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 (IRS-2) Polyclonal Antibody, Unconjugated (bs-0173R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat skeletal muscle; 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°C for 20 min; Incubation: Anti-IRS2 Polyclonal Antibody, Unconjugated(bs-0173R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control (black line): HepG2(black) (The cells were fixed with 2% paraformaldehyde (10 min), then permeabilized with PBST for 30 min on room temperature) Primary Antibody (Red line): Rabbit Anti-IRS-2 antibody (bs-0173R); Dilution: 1µg / 10⁶ cells; Isotype Control Antibody (green line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC; Dilution: 1µg / test.

— SELECTED CITATIONS —

- **[IF=7.163]** Ningfei Ji. et al. SARS-CoV-2 in the pancreas and the impaired islet function in COVID-19 patients. 2022 Mar 28 IHC ;Human. 35343389
- **[IF=5.669]** Ling, Qi, et al. "Donor graft microRNAs: a newly identified player in the development of new - onset diabetes after liver transplantation." American Journal of Transplantation (2016). WB ;="Human". 27458792

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=6.1]** Ye Xiang, et al. Anti-diabetic effect of anthocyanin cyanidin-3-O-glucoside: data from insulin resistant hepatocyte and diabetic mouse. NUTR DIABETES. 2024 Mar;14(1):1-8 WB ;Human. 38429305
- **[IF=2.866]** Wang H et al. MiR-193a regulates chemoresistance of human osteosarcoma cells via repression of IRS2 J Bone Oncol. 2019 May 11;17:100241. WB ;Human. 31193934
- **[IF=1.96]** Wang, Fan, et al. "Defective insulin signaling and the protective effects of dimethyldiguanide during follicular development in the ovaries of polycystic ovary syndrome." Molecular Medicine Reports (2017). IHC,WB ;="Rat". 28990055