bs-0172R **[Primary Antibody]**

IRS1 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: 25467 **SWISS:** P35570

Target: IRS1

Immunogen: KLH conjugated synthetic peptide derived from rat IRS-1: 1101-1200/1242.

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: Insulin receptor substrates (IRS) are responsible for several insulin related activities, such as glucose homeostasis, cell growth, cell transformation, apoptosis and insulin signal transduction. Serine/threonine phosphorylation of IRS1 has been demonstrated to be a negative regulator of insulin signaling and is responsible for its degradation, although IRS1 degradation pathways are not well understood. IRS1 has also been shown to be constitutively activated in cancers such as breast cancer, Wilm's tumors, and adrenal cortical carcinomas, thus making IRS1 phosphorylation and subsequent degradation an attractive therapeutic target. To date there have been four subtypes identified: IRS1, 2, 3 and 4, with IRS1 being widely expressed.

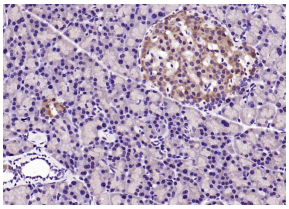
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-300)

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

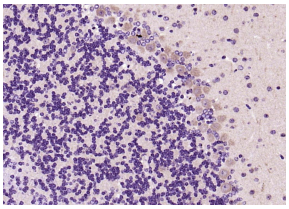
Predicted MW.: 137 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Mouse Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with IRS1 Polyclonal Antibody, Unconjugated (bs-0172R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebellum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with IRS1 Polyclonal Antibody, Unconjugated (bs-0172R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=7.129]** Yanwen Hou. et al. Prenatal PM2.5 exposure contributes to neuronal tau lesion in male offspring mice through mitochondrial dysfunction-mediated insulin resistance. ECOTOX ENVIRON SAFE. 2022 Nov;246:114151 WB ;Mouse. 36228359
- **[IF=6.691]** Wang, Hongyan. et al. Protection of pancreatic β-cell by phosphocreatine through mitochondrial improvement via the regulation of dual AKT/IRS-1/GSK-3β and STAT3/Cyp-D signaling pathways. 2021 Aug 28 WB ;Rat. 34455488

- **[IF=6.796]** Tingting Ku. et al. Cardiac energy metabolism disorder mediated by energy substrate imbalance and mitochondrial damage upon tebuconazole exposure. J ENVIRON SCI-CHINA. 2022 Oct;: WB ;Mouse. 10.1016/j.jes.2022.10.012
- **[IF=7.097]** Yilan Shen et al. VEGF-B antibody and interleukin-22 fusion protein ameliorates diabetic nephropathy through inhibiting lipid accumulation and inflammatory responses. IHC ;mouse. 10.1016/j.apsb.2020.07.002
- **[IF=7.097]** Yilan Shen et al. VEGF-B antibody and interleukin-22 fusion protein ameliorates diabetic nephropathy through inhibiting lipid accumulation and inflammatory responses. Other ;. 10.1016/j.apsb.2020.07.002