SunLong Biotech Co.,LTD
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Rabbit Anti-IRS-2 antibody

SL0173R

Product Name	IRS-2
Chinese Name	胰岛素受体底物-2 抗体
Alias	Insulin Receptor Substrate 2; IRS 2; IRS-2; IRS2; IRS2_HUMAN.
Research Area	Cell biology Neurobiology Signal transduction Apoptosis The cell membrane 受体 Diabetes
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Mouse, Rat,
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	146kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human IRS-2: 501-600/1324
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	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.

Function:
May mediate the control of various cellular processes by insulin.

Subunit:
Interacts with PHIP (By similarity).

Subcellular Location:
Cytoplasm, cytosol.

Post-translational modifications:
Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:
Contains 1 IRS-type PTB domain.
Contains 1 PH domain.

SWISS:
Q9Y4H2

Gene ID:
8660

Database links:

Entrez Gene: 8660 Human

Entrez Gene: 384783 Mouse

Entrez Gene: 29376 Rat

Omim: 600797 Human

SwissProt: Q9Y4H2 Human

SwissProt: P81122 Mouse

Unigene: 442344 Human

Unigene: 407207 Mouse

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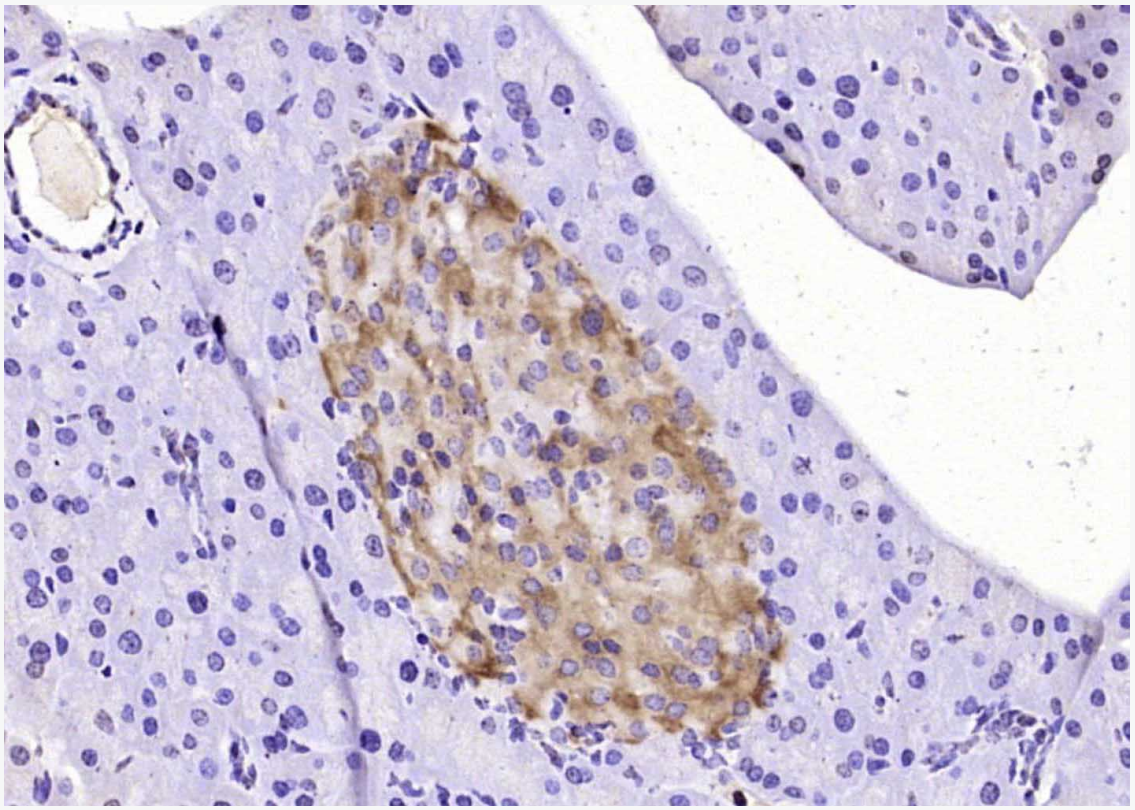
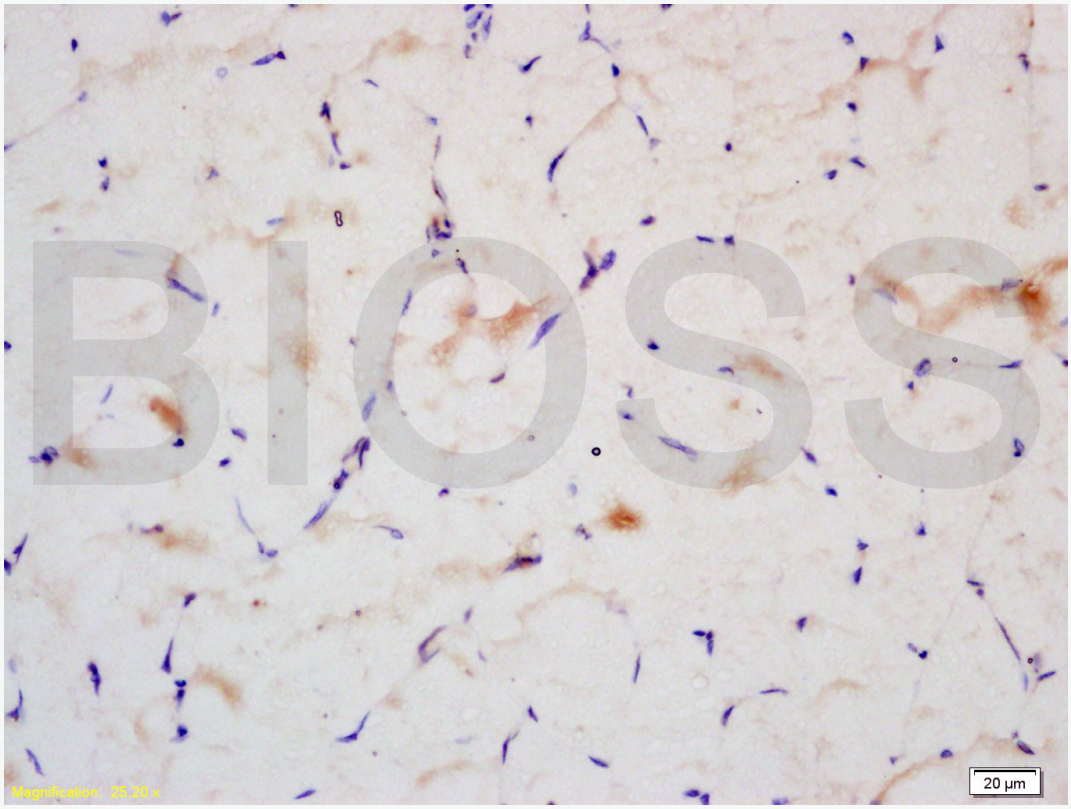
IRS-2 是肝胰岛素 Signal transduction 核心介子，IRS-2 基因的缺失或 IRS-2 信号网络上一些关键信号分子的异常改变，都将导致肝胰岛素 Signal transduction 能力减弱，出现肝胰岛素抵抗.

Product Picture



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 (SL0173R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat skeletal muscle; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, 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℃ for 20 min;

Incubation: Anti-IRS2 Polyclonal Antibody, Unconjugated(SL0173R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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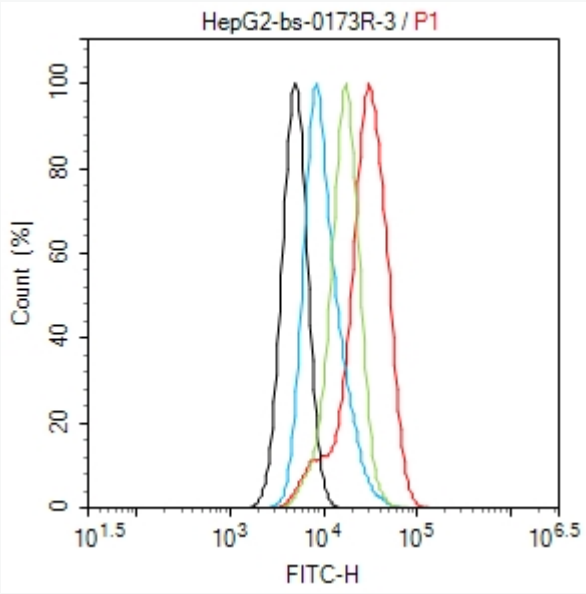

Blank control (black line): HepG2(black) (The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with PBST for 30 min on room temperature)

Primary Antibody (Red line): Rabbit Anti-IRS-2 antibody (SL0173R) ; Dilution: 1μg /10^6 cells;

Isotype Control Antibody (green line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC;Dilution: 1μg /test.