



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	146kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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

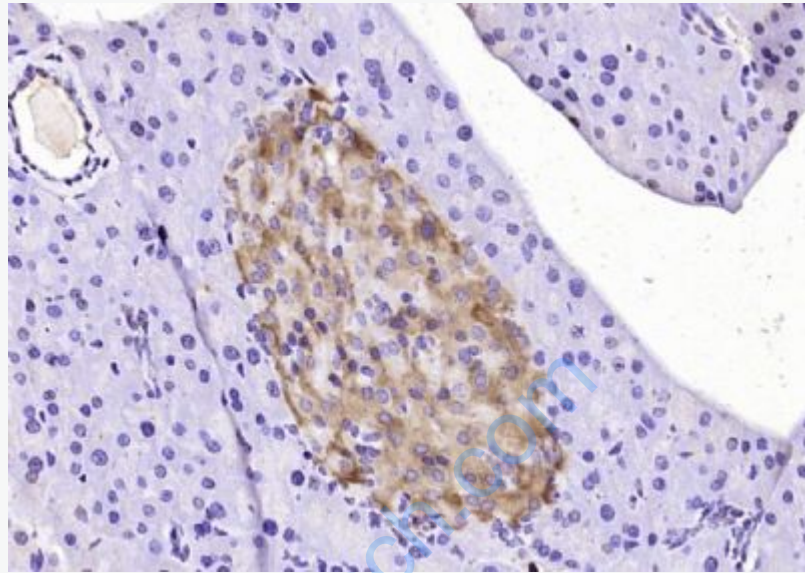
[Unigene: 407207](#)Mouse

Important Note:

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

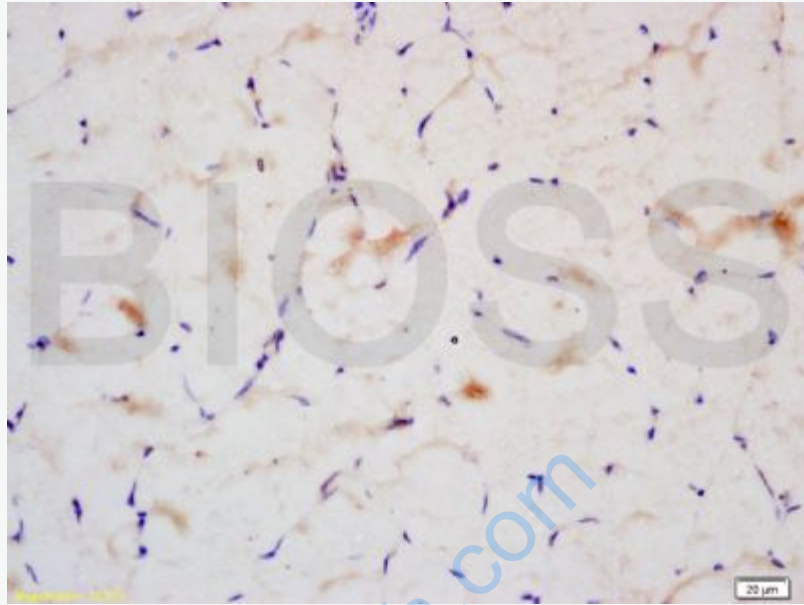
IRS-2是肝胰岛素Signal transduction核心介子, IRS-2基因的缺失或IRS-

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.

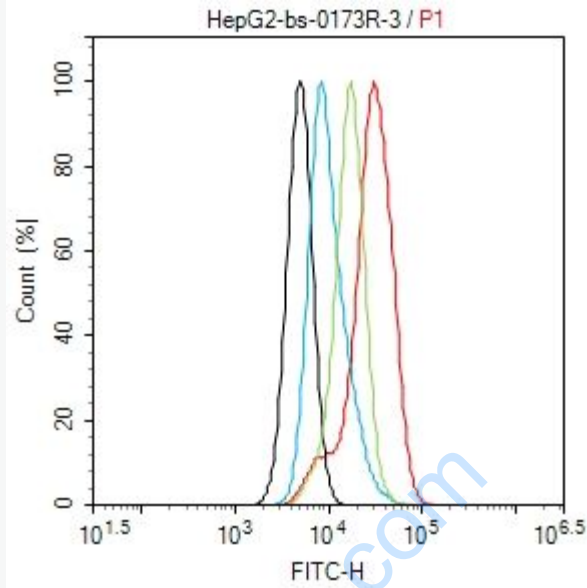


Picture:

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) 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(SL0173R) 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 (SL0173R) ; Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (green line): Rabbit IgG .

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