Data Sheet (Cat.No.TMAB-07814)

Anti-IRS-2 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Horse)
Molecular Weight:	Theoretical: 146 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IRS-2) Polyclonal Antibody, Unconjugated (TMAB-07814) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining. 2. Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IRS-2) Polyclonal Antibody, Unconjugated (TMAB-07814) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining. 3. Paraformaldehyde-fixed, paraffin embedded (Rat skeletal muscle); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IRS-2) Polyclonal Antibody, Unconjugated (TMAB-07814) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining. 4. 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 (TMAB-07814); Dilution: 1 µg /10^6 cells; Isotype Control Antibody (green line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC;Dilution: 1 µg /test. 5. Blank control (Black line): Raji (Black). Primary Antibody (red line): Rabbit Anti-IRS-2 antibody (TMAB-07814) Dilution: 1 µg /10^6 cells; Isotype Control Antibody (green line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1 µg /test. Protocol The cells were fixed with 4% PFA (10 min) and then permeabilized with 0.1% P000 events was performed. 6. SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (IRS-2) polyclonal Antibody, Unconjugated (TMAB-07814) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei. 7. Blank control (black line): sH-SY5Y. Primary Antibody (green line): Rabbit Anti-IRS-2 antibody (TMAB-07814)

Dilution: 1 μg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 μg/Test.
Isotype control (orange line): Normal Rabbit IgG
Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Application:	IHC-P,IHC-Fr,ICC/IF,IF,FCM
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; FCM: 1μg/Test

Properties

Stability & Storage:	Store at 2℃-8℃ for 1 month. Store at -20℃ or -80℃ for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human IRS-2
Antigen Species:	Human
Gene ID:	8660
Uniprot ID:	Q9Y4H2

Research 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.