

AbboMax, Inc

Innovation at Work

Order Information

Description: Rabbit anti IRS-2
Catalogue#: 602-640
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu, Rt, Ms

Rabbit anti IRS-2 Antibody

Synonym: Insulin-receptor substrate 2 (IRS-2).

ANTIGEN PREPARATION

A synthetic peptide corresponding to the intra domain of IRS-2 protein. It is identical within human, rat and mouse origins.

BACKGROUND

Insulin Receptor Substrate-2 (IRS-2), a 180kDa cytoplasmic docking protein, is one of the major endogenous substrates of the insulin receptor kinase. The insulin receptor mediates insulin action through the phosphorylation of substrate proteins. The major substrates of the insulin receptor kinase are the insulin receptor substrate (IRS) family of proteins, IRS 1, IRS 2, IRS 3, and IRS 4. IRS 2, a signaling molecule that mediates effects of insulin, Insulin-like growth factor 1 and other cytokines by acting as a molecular adaptor between diverse receptor kinases and downstream effectors. IRS proteins contain more than 70 potential Ser / Thr phosphorylation sites for kinases like PKA (cAMP-dependent protein kinase), PKC, and MAPK. The phosphorylation of Ser / Thr residues of IRS proteins has a dual function, serving either for a positive or negative modulation of insulin signal transduction.

PURIFICATION

The Rabbit IgG is purified by Site-specific Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes ~180 kDa of human IRS-2. It also reacts with mouse and rat. The other species are not tested.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 $\mu\text{g/ml}$
ELISA	0.01-0.1 $\mu\text{g/ml}$
Immunoprecipitation	2-5 $\mu\text{g/ml}$
IHC	0.5-2 $\mu\text{g/ml}$
Flow cytometry	Not tested

MOLECULAR WEIGHT:	180 kDa
POSITIVE CONTROL:	3T3 cell lysate
CELLULAR LOCATION:	N/A

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS

REFERENCES

Li, Y. et al. (2004) J. Biol. Chem. 279, 45304–45307.

FOR RESEARCH USE ONLY.

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