

IRS-1 Inhibition Antibody Sampler Kit

Cat# AK0180

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Insulin receptor substrate 1 (IRS-1) is one of the major substrates of the insulin receptor kinase. IRS-1 contains multiple tyrosine phosphorylation motifs that serve as docking sites for SH2-domain containing proteins that mediate the metabolic and growth-promoting functions of insulin. IRS-1 also contains over 30 potential serine/threonine phosphorylation sites, many of which are related to negative feedback loops activated during insulin signaling. Ser307 (mouse Ser302) of IRS-1 is regulated by FOXO1, IKK γ , and MYO1C. Ser312 (mouse Ser307) of IRS-1 is phosphorylated by JNK and IKK. PKC phosphorylates mouse IRS-1 at Ser323 (mouse Ser318) by insulin receptor activation or by other stimulation such as TPA, IL-6, and retinoic acid treatment. The PKC and mTOR pathways mediate phosphorylation of IRS-1 at Ser616 (mouse Ser612) and Ser636/639 (mouse Ser632/635), respectively. Phosphorylation of IRS-1 at Ser1101 (human Ser1097) is mediated by PKC θ and results in an inhibition of insulin signaling in the cell, suggesting a potential mechanism for insulin resistance in some models of obesity.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340244	Phospho-IRS1 (Ser307) Polyclonal Antibody	20 μ L	WB,IHC,ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340322	Phospho-IRS1 (Ser312) Polyclonal Antibody	20 μ L	WB,IF,ELISA	Human, Mouse, Rat	Rabbit
A340246	Phospho-IRS1 (Ser636) Polyclonal Antibody	20 μ L	WB,IHC,IF,ELISA	Human, Mouse, Rat	Rabbit
A340381	Phospho-IRS1 (Ser323) Polyclonal Antibody	20 μ L	WB,IHC-p,IF,ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340243	Phospho-IRS1 (Ser1101) Polyclonal Antibody	20 μ L	WB,IHC,ELISA	Human, Mouse, Rat, Monkey	Rabbit
A340571	IRS1 Polyclonal Antibody	20 μ L	WB,IHC,ELISA	Human, Mouse, Rat	Rabbit

A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120μL	WB, ELISA	Rabbit	Goat
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PRODUCT USE LIMITATION

These products are intended for research use only.