**p-insulin Rβ (10C3): sc-81500**

**BACKGROUND**

The Insulin receptor (insulin R) is a heterodimeric protein complex that has an intracellular β subunit and an extracellular α subunit, which is disulfide-linked to a transmembrane segment. The Insulin ligand binds to Insulin R and initiates molecular signaling pathways that promote glucose uptake in cells and, ultimately, glycogen synthesis. Insulin binding to Insulin R induces phosphorylation of intracellular tyrosine kinase domains and recruitment of multiple SH2 and SH3 domain-containing intracellular proteins that serve as signaling intermediates for the pleiotropic effects of Insulin. The human Insulin R gene encodes a 1,382 amino acid protein that cleaves apart to form α and β subunits. Human Insulin R may be phosphorylated on specific amino acid residues, such as Tyr 1322.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: INSR (human) mapping to 19p13.2; Insr (mouse) mapping to 8 A1.1.

**SOURCE**

p-insulin Rβ (10C3) is a mouse monoclonal antibody raised against a phosphopeptide corresponding to amino acid residues surrounding Tyr 1150/1151 of Insulin R of human origin.

**PRODUCT**

Each vial contains 50 µg IgG; kappa light chain in 0.5 ml of PBS with < 0.1% sodium azide, 0.1% gelatin, PEG and sucrose.

**APPLICATIONS**

p-insulin Rβ (10C3) is recommended for detection of Tyr 1150 and Tyr 1151 dually phosphorylated Insulin Rβ and IGF1 receptor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)).

Molecular Weight of Insulin R precursor: 200 kDa.

Molecular Weight of mature Insulin Rβ chain: 95 kDa.

**DATATABLE**

| p-insulin Rβ (10C3) (phospho-Tyr 1150/1151): sc-81500. Western blot analysis of insulin R phosphorylation in non-stimulated (A) and insulin stimulated (B) MDA-MB-231 whole cell lysates. |

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.