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**anti-Insulin R beta**

Cat #: HM1192  
Rabbit polyclonal IgG  
0.2 µg/µl, store at 4 °C

For research use only

**BACKGROUND**

The insulin ligand binds to the insulin receptor (IR) and initiates molecular signaling pathways that promote glucose uptake in cells and glycogen synthesis. Insulin receptor is a heterodimeric protein complex that has an intracellular beta subunit and an extracellular alpha subunit, which is disulfidelinked to a transmembrane segment. The human insulin receptor gene encodes a 1382 amino acid protein. After removal of the precursor signal peptide, the insulin receptor precursor is post-translationally cleaved into two chains (alpha and beta) that are covalently linked. Insulin binding to IR induces phosphorylation of intra-cellular tyrosine kinase domains and recruitment of multiple SH2 and SH3 domain-containing intracellular proteins that serve as signaling intermediates for pleiotropic effects of insulin.

**SPECIFICITY**

This antibody is for detection of insulin receptor beta chain of mouse, rat and human origin by immunoprecipitation and immune complex protein kinase assays.

Molecular Weight of insulin R beta: 95/200 kDa.  
Positive Controls: NIH/3T3 whole cell lysate.

**IMMUNOGEN**

A peptide corresponding to an intracellular region of the 95 kDa beta chain of the insulin receptor.

**STORAGE**

This antibody is stable for 12 months when stored at 2-8°C.

**REFERENCES**

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