



ELK Biotechnology

# Insulin Receptor $\beta$ (phospho-Tyr1345) rabbit pAb

Cat No.:ES15451

For research use only

## Overview

|                          |   |
|--------------------------|---|
| Product Name             | Insulin Receptor $\beta$ (phospho-Tyr1345) rabbit pAb   |
| Host species             | Rabbit  |
| Applications             | WB  |
| Species Cross-Reactivity | Human;Rat;Mouse;  |
| Recommended dilutions    | WB 1:1000-2000  |
| Immunogen                | Synthesized phospho peptide around human Insulin Receptor $\beta$ (Tyr1345)   |
| Specificity              | This antibody detects endogenous levels of Human Insulin Receptor $\beta$ (phospho-Tyr1345)   |
| Formulation              | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| Storage                  | Store at -20°C . Avoid repeated freeze-thaw cycles.   |
| Protein Name             | Insulin Receptor $\beta$ (Tyr1345)  |
| Gene Name                | INSR  |
| Cellular localization    | Cell membrane ; Single-pass type I membrane protein . Late endosome . Lysosome . Binding of insulin to INSR induces internalization and lysosomal degradation of the receptor, a means for down-regulating this signaling pathway after stimulation. In the presence of SORL1, internalized INSR molecules are redirected back to the cell surface, thereby preventing their lysosomal catabolism and strengthening insulin signal reception. . |
| Purification             | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.   |
| Clonality                | Polyclonal  |
| Concentration            | 1 mg/ml   |
| Observed band            | 95kD  |
| Human Gene ID            | 3643  |
| Human Swiss-Prot Number  | P06213  |



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### **Alternative Names**

Insulin receptor (IR) (EC 2.7.10.1) (CD antigen CD220) [Cleaved into: Insulin receptor subunit alpha; Insulin receptor subunit beta]

### **Background**

This gene encodes a member of the receptor tyrosine kinase family of proteins. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form a heterotetrameric receptor. Binding of insulin or other ligands to this receptor activates the insulin signaling pathway, which regulates glucose uptake and release, as well as the synthesis and storage of carbohydrates, lipids and protein. Mutations in this gene underlie the inherited severe insulin resistance syndromes including type A insulin resistance syndrome, Donohue syndrome and Rabson-Mendenhall syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015],

