

**IGF-I Receptor  $\beta$  (Phospho Tyr1316) rabbit pAb**

<b>Catalog No :</b>	YP1360
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB
<b>Target :</b>	IGF-1R
<b>Fields :</b>	>>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>MAPK signaling pathway;>>Ras signaling pathway;>>Rap1 signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Oocyte meiosis;>>Autophagy - animal;>>Endocytosis;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Focal adhesion;>>Adherens junction;>>Signaling pathways regulating pluripotency of stem cells;>>Long-term depression;>>Ovarian steroidogenesis;>>Progesterone-mediated oocyte maturation;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Proteoglycans in cancer;>>Glioma;>>Prostate cancer;>>Melanoma;>>Breast cancer;>>Hepatocellular carcinoma
<b>Gene Name :</b>	IGF1R
<b>Protein Name :</b>	IGF-I Receptor $\beta$ (Tyr1316)
<b>Human Gene Id :</b>	3480
<b>Human Swiss Prot No :</b>	P08069
<b>Mouse Gene Id :</b>	16001
<b>Mouse Swiss Prot No :</b>	Q60751
<b>Rat Gene Id :</b>	25718
<b>Rat Swiss Prot No :</b>	P24062
<b>Immunogen :</b>	Synthesized phospho peptide around human IGF-I Receptor $\beta$ (Tyr1316)
<b>Specificity :</b>	This antibody detects endogenous levels of Human Mouse IGF-I Receptor $\beta$

(phospho-Tyr1316)

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**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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**Source :** Polyclonal, Rabbit,IgG

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**Dilution :** WB 1:1000-2000

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**Purification :** The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** pro: 155kD, recetor beta: 95kD

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**Cell Pathway :** Oocyte meiosis;Endocytosis;Focal adhesion;Adherens\_Junction;Long-term depression;Progesterone-mediated oocyte maturation;Pathways in cancer;Colorectal cancer;Glioma;Prostate cancer;Melanoma;

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**Background :** This receptor binds insulin-like growth factor with a high affinity. It has tyrosine kinase activity. The insulin-like growth factor I receptor plays a critical role in transformation events. Cleavage of the precursor generates alpha and beta subunits. It is highly overexpressed in most malignant tissues where it functions as an anti-apoptotic agent by enhancing cell survival. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, May 2014],

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**Function :** catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in IGF1R may be a cause in some cases of resistance to insulin-like growth factor 1 (IGF1 resistance) [MIM:270450]. IGF1 resistance is a growth deficiency disorder characterized by intrauterine growth retardation and poor postnatal growth accompanied with increased plasma IGF1.,enzyme regulation:Autophosphorylation activates the kinase activity.,function:This receptor binds insulin-like growth factor 1 (IGF1) with a high affinity and IGF2 with a lower affinity. It has a tyrosine-protein kinase activity, which is necessary for the activation of the IGF1-stimulated downstream signaling cascade. When present in a hybrid receptor with INSR, binds IGF1. PubMed:12138094 shows that hybrid receptors composed of IGF1R and INSR isoform Long are activated with a high affinity by IGF1, with low a

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**Subcellular Location :** Cell membrane ; Single-pass type I membrane protein .

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**Expression :** Found as a hybrid receptor with INSR in muscle, heart, kidney, adipose tissue, skeletal muscle, hepatoma, fibroblasts, spleen and placenta (at protein level).

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Expressed in a variety of tissues. Overexpressed in tumors, including melanomas, cancers of the colon, pancreas prostate and kidney.

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## Products Images