

**Rabbit Anti-IGF-I Receptor  $\beta$  [MD30R]: RM0333**

**Intended Use:** For Research Use Only

**Description:** Type I insulin-like growth factor receptor (IGFIR) is a transmembrane receptor tyrosine kinase that is widely expressed in many cell lines and cell types within fetal and postnatal tissues. Receptor autophosphorylation follows binding of the IGF-I and IGF-II ligands. Three tyrosine residues within the kinase domain (Tyr1131, Tyr1135, and Tyr1136) are the earliest major autophosphorylation sites. Phosphorylation of these three tyrosine residues is necessary for kinase activation. Insulin receptors (IRs) share significant structural and functional similarity with IGF-I receptors, including the presence of an equivalent tyrosine cluster (Tyr1146/1150/1151) within the kinase domain activation loop. Tyrosine autophosphorylation of IRs is one of the earliest cellular responses to insulin stimulation. Autophosphorylation begins with phosphorylation at Tyr1146 and either Tyr1150 or Tyr1151, while full kinase activation requires triple tyrosine phosphorylation.

**Specifications:**

Clone: MD30R  
Source: Rabbit  
Isotype: IgG  
Reactivity: Human  
Localization: Membrane  
Formulation: Antibody in PBS pH7.4, containing BSA, glycerol, and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>).  
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
Applications: IHC, WB  
Package:

Description	Catalog No.	Size
IGF-I Receptor $\beta$ Concentrated	RM0333	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Breast cancer  
Concentrated Dilution: 50-100  
Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 min @ RT  
Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.