

Store at -20C

#3022

# IGF-I Receptor alpha Antibody



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**For Research Use Only. Not for Use in Diagnostic Procedures.**

MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
90	Rabbit	#P08069	3480

<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.
<b>Specificity/Sensitivity</b>	IGF-I Receptor beta Antibody detects endogenous levels of IGF-IR beta. It does not cross-react with insulin receptor.
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human IGF-IR beta. Antibodies are purified by protein A and peptide affinity chromatography.
<b>Background</b>	Type I insulin-like growth factor receptor (IGF-IR) is a transmembrane receptor tyrosine kinase that is widely expressed in many cell lines and cell types within fetal and postnatal tissues (1-3). 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 (4). Phosphorylation of these three tyrosine residues is necessary for kinase activation (5,6). 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 (7). Autophosphorylation begins with phosphorylation at Tyr1146 and either Tyr1150 or Tyr1151, while full kinase activation requires triple tyrosine phosphorylation (8).
<b>Background References</b>	<ol style="list-style-type: none"> <li>Adams, T.E. et al. (2000) <i>Cell Mol Life Sci</i> 57, 1050-93.</li> <li>Baserga, R. (2000) <i>Oncogene</i> 19, 5574-81.</li> <li>Scheidegger, K.J. et al. (2000) <i>J Biol Chem</i> 275, 38921-8.</li> <li>Hernández-Sánchez, C. et al. (1995) <i>J Biol Chem</i> 270, 29176-81.</li> <li>Lopaczynski, W. et al. (2000) <i>Biochem Biophys Res Commun</i> 279, 955-60.</li> <li>Baserga, R. (1999) <i>Exp Cell Res</i> 253, 1-6.</li> <li>White, M.F. et al. (1985) <i>J Biol Chem</i> 260, 9470-8.</li> <li>White, M.F. et al. (1988) <i>J Biol Chem</i> 263, 2969-80.</li> </ol>

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
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