

Phospho-IGF-I Receptor β (Tyr1135) (DA7A8) Rabbit mAb



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P06213, #P08069	Entrez-Gene Id: 3643, 3480
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-IGF-I Receptor β (Tyr1135) (DA7A8) Rabbit mAb detects endogenous levels of IGF-I receptor only when phosphorylated at Tyr1135. This antibody cross-reacts with Tyr1150 of insulin receptor and may also cross-react with other overexpressed related tyrosine-phosphorylated tyrosine kinases.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1135 of human IGF-I receptor β .				
Background		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).				
Background References		1. Adams, T.E. et al. (2000) <i>Cell Mol Life Sci</i> 57, 1050-93. 2. Baserga, R. (2000) <i>Oncogene</i> 19, 5574-81. 3. Scheidegger, K.J. et al. (2000) <i>J Biol Chem</i> 275, 38921-8. 4. Hernández-Sánchez, C. et al. (1995) <i>J Biol Chem</i> 270, 29176-81. 5. Lopaczynski, W. et al. (2000) <i>Biochem Biophys Res Commun</i> 279, 955-60. 6. Baserga, R. (1999) <i>Exp Cell Res</i> 253, 1-6. 7. White, M.F. et al. (1985) <i>J Biol Chem</i> 260, 9470-8. 8. White, M.F. et al. (1988) <i>J Biol Chem</i> 263, 2969-80.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approv	ved application (e.g., w	estern blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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