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## Phospho-Insulin Receptor β (Tyr1361) (84B2) Rabbit mAb



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Applications: W	<b>Reactivity:</b> H	Sensitivity: Transfected Only	<b>MW (kDa):</b> 95	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P06213	Entrez-Gene Id: 3643	
Product Usage Information				<b>Dilution</b> 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/Sen	isitivity	Phospho-Insulin Receptor $\beta$ (Tyr1361) (84B2) Rabbit mAb detects transfected levels of insulin receptor $\beta$ only when phosphorylated at Tyr1361. It slightly cross-reacts with activated IGF-I receptor, but does not cross-react with other activated tyrosine kinases.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1361 of human insulin receptor $\beta$ .					
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 (7). Autophosphorylation begins with phosphorylation at Tyr1146 and either Tyr1150 or Tyr1151, while full kinase activation requires triple tyrosine phosphorylation (8).					
Background R	eferences	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 det	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human					
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