#8521

IGF-I Receptor β (D23H3) XP[®] Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P08069	Entrez-Gene Id: 3480		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>						
Specificity/Sensitivity		IGF-I Receptor β (D23H3) XP [®] Rabbit mAb (Biotinylated) detects endogenous levels of total IGF-I receptor β protein. This antibody does not cross-react with insulin receptor.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human IGF-I receptor β protein.						
Description	escription This Cell Signaling Technology antibody is conjugated to biotin under optimal condition biotinylated antibody is expected to exhibit the same species cross-reactivity as the unc Receptor β (D23H3) XP [®] Rabbit mAb #9750.							
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 Re	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 Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	Buffer		or western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X on® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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