Phospho-IGF-I Receptor β (Tyr1316) Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit	UniProt ID: #P08069	Entrez-Gene Id 3480
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		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.				
Specificity/Sensitivity		Phospho-IGF-I Receptor β (Tyr1316) Antibody detects endogenous levels of IGF-I receptor only when phosphorylated at Tyr1316. This antibody may also cross-react with other overexpressed, related tyrosine-phosphorylated tyrosine kinases.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1316 of human IGF-I receptor. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		widely expressed in m autophosphorylation 1: kinase domain (Tyr11: Phosphorylation of th receptors (IRs) share s presence of an equiva loop. Tyrosine autoph (7). Autophosphorylat full kinase activation r Phosphorylation of IG at Cell Signaling Techr	any cell lines and of follows binding of 131, Tyr1135, and Ty ese three tyrosine significant structurallent tyrosine cluste osphorylation of IF ion begins with phequires triple tyros F-I receptor on Tyrology (CST) using sphorylation of IGF	(IGF-IR) is a transmemble (IGF-IR) is a transmemble (IGF-IR) is a transmemble (IGF-IR) is an IGF-IR (IGF-IR) is an IGF-IR) is an IGF-IR (IGF-IR) is an IGF-IR) is a transmemble (IGF-IR) is a transmembl	d postnatal tissues (ds. Three tyrosine I najor autophosphoi r kinase activation (ity with IGF-I recept vithin the kinase do ellular responses to 6 and either Tyr115 316 in mature prot -MS/MS platform fo	(1-3). Receptor residues within the rylation sites (4). 5,6). Insulin ors, including the main activation insulin stimulation 0 or Tyr1151, while ein) was identified or phosphorylation
Background Refer	rences	 Adams, T.E. et al. (2000) Cell Mol Life Sci 57, 1050-93. Baserga, R. (2000) Oncogene 19, 5574-81. Scheidegger, K.J. et al. (2000) J Biol Chem 275, 38921-8. Hernández-Sánchez, C. et al. (1995) J Biol Chem 270, 29176-81. Lopaczynski, W. et al. (2000) Biochem Biophys Res Commun 279, 955-60. Baserga, R. (1999) Exp Cell Res 253, 1-6. White, M.F. et al. (1985) J Biol Chem 260, 9470-8. White, M.F. et al. (1988) J Biol Chem 263, 2969-80. Rush, J. et al. (2005) Nat Biotechnol 23, 94-101. Peterson, J.E. et al. (1996) J Biol Chem 271, 31562-71. Knowlden, J.M. et al. (2005) Endocrinology 146, 4609-18. 				
Species Reactivity	•	Species reactivity is de	etermined by testin	g in at least one approv	ed application (e.g.	western blot)

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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 IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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