#3023 Store at -200

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



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

Applications: F	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P06213	Entrez-Gene Id: 3643
Product Usage Information	Application		Dilution			
	We	stern Blotting		1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitiv	only	Phospho-Insulin Receptor β (Tyr1361) (84B2) Rabbit mAb detects transfected levels of insulin receptor β 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 / Purification	urification Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1361 of human insulin receptor β.					
Background	wide auto kina Pho (IRs equi auto Auto	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 Referen	2. Bi 3. Si 4. Hi 5. Lo 6. Bi 7. W	 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. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western 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

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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