13026

Phospho-Insulin Receptor β (Tyr1345) (14A4) Rabbit mAb



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

Applications:	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P06213	Entrez-Gene Id: 3643
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-Insulin Receptor (Tyr1345) (14A4) Rabbit mAb detects transfected levels of insulin receptor β only when phosphorylated at Tyr1345. The antibody slightly cross-reacts with activated IGF-I receptors and some other activated tyrosine kinases.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1345 of human insulin receptor β .				
Background		widely expressed in m autophosphorylation i kinase domain (Tyr113 Phosphorylation of the receptors (IRs) share s presence of an equiva loop. Tyrosine autopho (7). Autophosphorylati	any cell lines and of follows binding of 31, Tyr1135, and Ty ese three tyrosine ignificant structurallent tyrosine clusteosphorylation of IF ion begins with ph	(IGF-IR) is a transmembell types within fetal and the IGF-I and IGF-II ligan r1136) are the earliest nesidues is necessary for all and functional similarier (Tyr1146/1150/1151) versione of the earliest cosphorylation at Tyr1146 ine phosphorylation (8).	d postnatal tissues and the street that the st	(1-3). Receptor residues within the rylation sites (4). 5,6). Insulin tors, including the main activation of insulin stimulation
Background References		 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 Reactiv	vity	Species reactivity is de	termined by testir	g in at least one approv	ed 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		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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