Insulin Receptor β (L55B10) Mouse mAb





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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Mouse IgG1	UniProt ID: #P06213	Entrez-Gene Id: 3643		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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	sitivity	Insulin Receptor beta (L55B10) Mouse mAb detects endogenous levels of total insulin receptor eta .						
Source / Purific	Monoclonal antibody is carboxy-terminal fragm	lonal antibody is produced by immunizing animals with recombinant human insulin receptor eta y-terminal fragments.						
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 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 det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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