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

Insulin Receptor β (L55B10) Mouse mAb

Applications: WB, 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	We	pplication estern Blotting munoprecipitation			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 / Sensi	tivity Insu	Insulin Receptor beta (L55B10) Mouse mAb detects endogenous levels of total insulin receptor β .						
Source / Purificati		Monoclonal antibody is produced by immunizing animals with recombinant human insulin receptor eta carboxy-terminal fragments.						
Background	widi auto kina Pho (IRs equ auto Auto kina	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 Refe	2. B 3. S 4. H 5. L 6. B 7. W		cogene 19, 557 (2000) J Biol C 2. et al. (1995) J (2000) Biochem 5 Cell Res 253, 6) J Biol Chem 2	4-81. Chem 275, 38921-8. I Biol Chem 270, 29176 I Biophys Res Commun 1-6. 260, 9470-8.				
Species Reactivity	y Spec	cies reactivity is deterr	nined by testing	g in at least one approve	ed application (e.g., we	stern blot).		
Western Blot Buff	0.	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 Key	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity F	X: X:	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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Insulin Receptor β (L55B10) Mouse mAb (#3020) Datasheet Without Images Cell Signaling Technology

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