Phospho-IGF-I Receptor β (Tyr1135/1136)/Insulin Receptor β (Tyr1150/1151) (19H7) Rabbit mAb



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Applications: W, W-S	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P06213, #P08069	Entrez-Gene Id: 3643, 3480
Product Usage Information		Application Western Blotting Simple Western™		Dilution 1:1000 1:10 - 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/Sensitivity		Phospho-IGF-I Receptor β (Tyr1135/1136)/Insulin Receptor β (Tyr1150/1151) (19H7) Rabbit mAb detects endogenous levels of IGF-I receptor and insulin receptor only when phosphorylated at tyrosine 1135/1136 or tyrosine 1150/1151, respectively. It does not cross-react with other related tyrosine-phosphorylated tyrosine kinases.				
Species predicted based on 100% so homology		Bovine, Dog				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1135/1136 of human IGF-I receptor β .				
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 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 References			Oncogene 19, 5574- al. (2000) <i>J Biol Che</i> c, C. et al. (1995) <i>J B</i> Il. (2000) <i>Biochem I</i> Exp Cell Res 253, 1-6 185) <i>J Biol Chem</i> 26	81. m 275, 38921-8. iol Chem 270, 29176-8' Biophys Res Commun 2 5. 0, 9470-8.		
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 nonfat dry milk, 1X TBS, 0.1% Tween $\$$ 20 at 4°C with gentle shaking, overnight.				
Applications Key		W : Western Blotting W-S : Simple Western™				
Cross-Reactivity Key		H: Human M: Mouse F	R: Rat			

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