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IGF-I Receptor β (D23H3) XP[®] Rabbit mAb



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

Applications: WB, IP, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 95	Source/Isotype: Rabbit IgG	UniProt ID: #P08069	Entrez-Gene Id: 3480	
Product Usage Information	Ap	Application			Dilution		
	We	stern Blotting			1:1	000	
	Imn	munoprecipitation			1:2	00	
	Imn	Immunofluorescence (Immunocytochemistry)				1:200 - 1:800	
	Flo	w Cytometry (Fixed	/Permeabilized)	1:200 - 1:800			
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.					
	For	For a carrier free (BSA and azide free) version of this product see product #97661.					
Specificity / Sensit	,	IGF-I Receptor β (D23H3) XP [®] Rabbit mAb detects endogenous levels of total IGF-I receptor β protein. This antibody does not cross-react with insulin receptor.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human IGF-I receptor β protein.					
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 Refere	2. Ba 3. So 4. Ho 5. Lo 6. Ba 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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

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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IGF-I Receptor β (D23H3) XP® Rabbit mAb (#9750) Datasheet Without Images Cell Signaling Technology

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