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#2969

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

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	95	Rabbit IgG	#P06213, #P08069	3643, 3480

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

StorageSupplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. 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 (Biotinylated) recognizes endogenous levels of IGF-I receptor and insulin receptor only when phosphorylated at Tyr1135/1136 or Tyr1150/1151, respectively. It does not cross-react with other related tyrosine-phosphorylated tyrosine kinases.**Species predicted to react based on 100% sequence homology**

Bovine, Dog

Source / PurificationMonoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1135/1136 of human IGF-I receptor β protein.**Description**This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-IGF-I Receptor β (Tyr1135/1136)/Insulin Receptor β (Tyr1150/1151) (19H7) Rabbit mAb #3024.**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

- 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key**W:** Western Blotting**Cross-Reactivity Key****H:** Human **M:** Mouse **R:** Rat**Trademarks and Patents**

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