#17174 Store at -20C

IGF-I Receptor α (D3A2W) Rabbit



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Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #P08069	Entrez-Gene Id: 3480	
Product Usage Information	_	Application Western Blotting		Dilution 1:1000			
Storage	Sup	plied in 10 mM sodi	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than o not aliquot the antibody.			
Specificity / Sensitivity		IGF-I Receptor α (D3A2W) Rabbit mAb recognizes endogenous levels of total IGF-I receptor protein. The epitope resides within the alpha subunit of the IGF-I receptor protein.					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu563 of the human IGF-I receptor protein. The peptide region lies within the subunit of the IGF-I receptor.							
Background	The type 1 insulin-like growth factor receptor (IGF1R) is a transmembrane receptor tyrosine kinase that is widely expressed in many cell types in fetal and postnatal tissues, and which is highly similar in sequence and structure to the insulin receptor (1-4). IGF1R is synthesized as a preproprotein which is proteolytically cleaved into alpha and beta subunits. Receptor assembly involves heterodimerization of two alpha and two beta subunits to generate the heterotetrameric transmembrane receptor. The alpha subunits form the extracellular ligand binding domain; ligand binding by IGF-I or IGF-II initiates autophosphorylation of conserved intracellular residues in the beta subunit kinase domain, leading to kinase activation and subsequent activation of downstream signal transduction pathways (e.g., Akt and MAPK) (4-8). Enhanced mitogenic signaling through the IGF1R is frequently observed in cancer, making the IGF1R an important research target in translational oncology (9).						
Background Referer	2. B 3. S 4. M 5. U 6. H 7. L 8. B	aserga, R. (2000) C cheidegger, K.J. et lassagué, J. and Cz Illrich, A. et al. (1986 ernández-Sánchez, opaczynski, W. et al aserga, R. (1999) E	Oncogene 19, 557 al. (2000) <i>J Biol</i> (tech, M.P. (1982) 5) <i>EMBO J</i> 5, 250 , C. et al. (1995) J. (2000) <i>Biochen</i> Exp Cell Res 253,	ol Chem 275, 38921-8. 2) J Biol Chem 257, 5038-45. 503-12. 6) J Biol Chem 270, 29176-81. em Biophys Res Commun 279, 955-60.			

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

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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Limited Uses

IGF-I Receptor α (D3A2W) Rabbit mAb (#17174) Datasheet Without Images Cell Signaling Technology

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