

IGF-I Receptor α (D3A2W) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #P08069	Entrez-Gene Id: 3480
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
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		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 alpha 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 References		 Adams, T.E. et al. (2000) <i>Cell Mol Life Sci</i> 57, 1050-93. Baserga, R. (2000) <i>Oncogene</i> 19, 5574-81. Scheidegger, K.J. et al. (2000) <i>J Biol Chem</i> 275, 38921-8. Massagué, J. and Czech, M.P. (1982) <i>J Biol Chem</i> 257, 5038-45. Ullrich, A. et al. (1986) <i>EMBO J</i> 5, 2503-12. Hernández-Sánchez, C. et al. (1995) <i>J Biol Chem</i> 270, 29176-81. Lopaczynski, W. et al. (2000) <i>Biochem Biophys Res Commun</i> 279, 955-60. Baserga, R. (1999) <i>Exp Cell Res</i> 253, 1-6. Iams, W.T. and Lovly, C.M. (2015) <i>Clin Cancer Res</i> 21, 4270-7. 				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 W: Western Blotting

Cross-Reactivity Key H: Human

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