

#14364 Store at -20C

IGF-II Receptor/CI-M6PR (D3V8C) Rabbit mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IF-IC	H M R Mk	Endogenous	275	Rabbit IgG	#P11717	3482

Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:50 1:400
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-II Receptor/CI-M6PR (D3V8C) Rabbit mAb recognizes endogenous levels of total IGF-II Receptor/CI-M6PR protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1675 of human IGF-II Receptor/CI-M6PR protein.	
Background	Insulin-like growth factor II (IGF-II) receptor, also widely known as cation-independent mannose 6-phosphate receptor (CI-M6PR), is a multifunctional type I transmembrane glycoprotein that participates in the internalization of mannose-6-phosphate modified hydrolases and IGF-II from the plasma membrane (1,2). In the absence of ligands, IGF-II receptor is constitutively endocytosed from the cell surface to accumulate in the Golgi apparatus (3). In the presence of ligands, the receptor transports the mannose-6-phosphate modified hydrolases to acidified endosomes and lysosomes (4). The ligand-free receptor is then transported back to the Golgi compartment or the cell surface (4). In several research studies, IGF-II receptor has been recognized as a tumor suppressor in a number of cancers (5-7).	
Background References	1. Lobel, P. et al. (1989) <i>Cell</i> 57, 787-96. 2. Kiess, W. et al. (1988) <i>J Biol Chem</i> 263, 9339-44. 3. York, S.J. et al. (1999) <i>J Biol Chem</i> 274, 1164-71. 4. Duncan, J.R. and Kornfeld, S. (1988) <i>J Cell Biol</i> 106, 617-28. 5. Oates, A.J. et al. (1998) <i>Breast Cancer Res Treat</i> 47, 269-81. 6. Martin-Kleiner, I. and Gall Troselj, K. (2010) <i>Cancer Lett</i> 289, 11-22. 7. Puxbaum, V. et al. (2012) <i>J Hepatol</i> 57, 337-43.	

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	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)
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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