Revision 1

#15128 Store at -20C

IGF-II Receptor/CI-M6PR (D8Z3J) Rabbit mAb

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355) orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunohistochemistry (Paraffin)	1:50

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 (D8Z3J) 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 Phe1379 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) *Cell* 57, 787-96.
2. Kiess, W. et al. (1988) *J Biol Chem* 263, 9339-44.
3. York, S.J. et al. (1999) *J Biol Chem* 274, 1164-71.
4. Duncan, J.R. and Kornfeld, S. (1988) *J Cell Biol* 106, 617-28.
5. Oates, A.J. et al. (1998) *Breast Cancer Res Treat* 47, 269-81.
6. Martin-Kleiner, I. and Gall Troselj, K. (2010) *Cancer Lett* 289, 11-22.
7. Puxbaum, V. et al. (2012) *J Hepatol* 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

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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