Revision 1

#3433 Store at -20C

RECK (D8C7) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	110	Rabbit IgG	#O95980	8434

Product Usage Information

Application	Dilution
Western Blotting	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

RECK (D8C7) Rabbit mAb detects endogenous levels of total RECK protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile913 of human RECK protein.

Background

RECK (reversion-inducing cysteine-rich protein with Kazal motif) is a GPI-anchored membrane glycoprotein that negatively regulates members of the matrix metalloproteinase (MMP) family and functions as a suppressor of transformation (1,2). Its function in MMP inhibition makes RECK a crucial factor in the regulation of extracellular matrix formation and stability during development (2-4). RECK has also been linked to the regulation of other extracellar matrix proteases such as ADAM10 and CD13 and functions in modulating target protein endocytosis and Notch signaling (5,6). RECK is widely expressed in normal tissue and decreased expression of RECK due to promoter methylation has been correlated with tumor transformation, angiogenesis and metastasis (1,7-9). Therefore, loss of RECK expression serves as a prognostic hallmark for cancer malignancy (10,11)

Background References

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3. Kondo, S. et al. (2007) *J Cell Sci* 120, 849-57.
4. Echizenya, M. et al. (2005) *Oncogene* 24, 5850-7.
5. Miki, T. et al. (2007) *J Biol Chem* 282, 12341-52.
6. Muraguchi, T. et al. (2007) *Nat Neurosci* 10, 838-45.
7. Noda, M. et al. *Cancer Metastasis Rev* 22, 167-75.
8. Long, N.K. et al. (2008) *Oral Oncol* 44, 1052-8.
9. Chang, H.C. et al. (2007) *Cancer Sci* 98, 169-73.
10. Clark, J.C. et al. (2007) *Cancer Metastasis Rev* 26, 675-83.
11. Noda, M. and Takahashi, C. (2007) *Cancer Sci* 98, 1659-65.

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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