

#86934 Store at -20C

MDM2 (D1V2Z) Rabbit mAb**Cell Signaling**
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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	Endogenous	90	Rabbit IgG	#Q00987	4193

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:100
	Immunofluorescence (Immunocytochemistry)	1:200 - 1:800
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	MDM2 (D1V2Z) Rabbit mAb recognizes endogenous levels of total MDM2 protein. Based on the sequence of the peptide antigen, this antibody is expected to detect full-length MDM2, as well as isoforms A, C, alpha, F, G, and 11. This antibody may detect isoform A1.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val280 of human MDM2 protein.	
Background	MDM2, a ubiquitin ligase for p53, plays a central role in regulation of the stability of p53 (1). Akt-mediated phosphorylation of MDM2 at Ser166 and Ser186 increases its interaction with p300, allowing MDM2-mediated ubiquitination and degradation of p53 (2-4). Phosphorylation of MDM2 also blocks its binding to p19ARF, increasing the degradation of p53 (3).	
Background References	1. Haupt, Y. et al. (1997) <i>Nature</i> 387, 296-299. 2. Mayo, L.D. and Donner, D.B. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 11598-11603. 3. Zhou, B. P. et al. (2001) <i>Nat. Cell Biol.</i> 3, 973-981. 4. Grossman, S. R. et al. (1998) <i>Mol. Cell</i> 2, 405-415.	

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 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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