

Store at
-20C
#86934**MDM2 (D1V2Z) 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:
W, IP, IF-IC	H	Endogenous	90	Rabbit IgG	#Q00987	4193

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:100
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

- Haupt, Y. et al. (1997) *Nature* 387, 296-299.
- Mayo, L.D. and Donner, D.B. (2001) *Proc. Natl. Acad. Sci. USA* 98, 11598-11603.
- Zhou, B. P. et al. (2001) *Nat. Cell Biol.* 3, 973-981.
- Grossman, S. R. et al. (1998) *Mol. Cell* 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

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

Cross-Reactivity Key

H: Human

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