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#3521

Phospho-MDM2 (Ser166) Antibody

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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #Q00987	Entrez-Gene Id: 4193
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Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	Phospho-MDM2 (Ser166) Antibody detects endogenous levels of MDM2 only when phosphorylated at Ser166.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser166 of human MDM2. Antibodies are purified by protein A and peptide affinity chromatography.	
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	<ol style="list-style-type: none"> Haupt, Y. et al. (1997) <i>Nature</i> 387, 296-299. Mayo, L.D. and Donner, D.B. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 11598-11603. Zhou, B. P. et al. (2001) <i>Nat. Cell Biol.</i> 3, 973-981. 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	W: Western Blotting	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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