

SENP1 (D16D7) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 76	Source/Isotype: Rabbit IgG	UniProt ID: #Q9P0U3	Entrez-Gene Id: 29843
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SENP1 (D16D7) Rabbit mAb recognizes endogenous levels of total SENP1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln175 of human SENP1 protein.				
Background		nucleoplasm and cata substrates (1,2). SENP control of normal cell- target proteins, such related biological path hypoxia (5), activating and contributes to Sta (6). Under stress cond cells from apoptosis (a either directly or indir	alyzes the release of 1 has been reporte ular function (2). Th as HDAC1, HIF-1α, S nways (3-8). SENP1- downstream VEGF at5 acetylation and litions, SENP1 intera 8). SENP1 has been rectly through HDAG	-specific protease (SENP SUMO1, SUMO2, and Sold to be responsible for it e removal of sumoylation stat5, p300, Elk-1, and Silinduced desumoylation expression and angioges subsequent signaling duacts with and inactivates reported to target the pc1, thereby upregulating cer progression (3,10-13).	UMO3 monomers fintracellular SUMO hon by SENP1 from mrT1, leads to the regof HIF-1α stabilizes enesis (9). SENP1 de uring normal lymphes SirT1 by desumoylarogesterone and argitheir transcription	rom sumoylated nomeostasis in the any important gulation of the the target during sumoylates Stat5 ocyte development ation, protecting ndrogen receptors,
Background References		1. Cheng, J. et al. (2006) <i>Neoplasia</i> 8, 667-76. 2. Bawa-Khalfe, T. and Yeh, E.T. (2010) <i>Genes Cancer</i> 1, 748-752. 3. Cheng, J. et al. (2004) <i>Mol Cell Biol</i> 24, 6021-8. 4. Cheng, J. et al. (2005) <i>J Biol Chem</i> 280, 14492-8. 5. Cheng, J. et al. (2007) <i>Cell</i> 131, 584-95. 6. Van Nguyen, T. et al. (2012) <i>Mol Cell</i> 45, 210-21. 7. Witty, J. et al. (2010) <i>Biochem J</i> 428, 247-54. 8. Yang, Y. et al. (2007) <i>Nat Cell Biol</i> 9, 1253-62. 9. Xu, Y. et al. (2010) <i>J Biol Chem</i> 285, 36682-8. 10. Kaikkonen, S. et al. (2009) <i>Mol Endocrinol</i> 23, 292-307. 11. Abdel-Hafiz, H.A. and Horwitz, K.B. (2012) <i>BMC Mol Biol</i> 13, 10. 12. Wang, Q. et al. (2012) <i>Oncogene</i> , . 13. Knutson, T.P. et al. (2012) <i>Breast Cancer Res</i> 14, R95.				
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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