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TRIM27 (D5S4O) Rabbit mAb


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	58	Rabbit IgG	#P14373	5987

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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	TRIM27 (D5S4O) Rabbit mAb recognizes endogenous levels of total TRIM27 protein. This antibody also cross-reacts with an unidentified protein of 80 kDa.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TRIM27 protein.	
Background	Tripartite motif containing protein 27 (TRIM27, RFP) is a member of the tripartite motif (TRIM) family whose members contain a RING domain, a B-box, and a coiled-coil region (together called RBCC). TRIM27 was originally discovered as part of an oncogenic DNA rearrangement resulting in a fusion of the amino terminal RBCC region of TRIM27 with the carboxyl terminal kinase domain of the receptor tyrosine kinase Ret (1). Overexpression of TRIM27 induces JNK and p38 MAPK activation as well as apoptosis (2). TRIM27 has been found to have pleiotropic effects including transcriptional repression (3,4), and E3 ligase activity for ubiquitin (5-7), and SUMO (8). TRIM27 was originally found to interact with Enhancer of Polycomb (EPC) and function as a transcriptional repressor (3). Subsequent studies have identified ubiquitin E3 ligase activity in TRIM27 as well as other members of the TRIM family (reviewed in 9). Potential substrates of TRIM27-mediated ubiquitination include class II PI3K-C2β, NOD2, and WASH. Elevated expression of TRIM27 has been observed in several types of cancer, where in some cases it may be a predictor of poor prognosis (10-13).	
Background References	<ol style="list-style-type: none"> 1. Takahashi, M. et al. (1988) <i>Mol Cell Biol</i> 8, 1853-6. 2. Dho, S.H. and Kwon, K.S. (2003) <i>J Biol Chem</i> 278, 31902-8. 3. Shimono, Y. et al. (2000) <i>J Biol Chem</i> 275, 39411-9. 4. Bloor, A.J. et al. (2005) <i>Oncogene</i> 24, 6729-36. 5. Cai, X. et al. (2011) <i>Proc Natl Acad Sci U S A</i> 108, 20072-7. 6. Zurek, B. et al. (2012) <i>PLoS One</i> 7, e41255. 7. Hao, Y.H. et al. (2013) <i>Cell</i> 152, 1051-64. 8. Chu, Y. and Yang, X. (2011) <i>Oncogene</i> 30, 1108-16. 9. Meroni, G. and Diez-Roux, G. (2005) <i>Bioessays</i> 27, 1147-57. 10. Tezel, G.G. et al. (2009) <i>Pathol Res Pract</i> 205, 403-8. 11. Tsukamoto, H. et al. (2009) <i>Cancer Sci</i> 100, 1895-901. 12. Iwakoshi, A. et al. (2012) <i>Pathol Int</i> 62, 324-30. 13. Zoumpoulidou, G. et al. (2012) <i>J Natl Cancer Inst</i> 104, 941-52. 	

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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