

TRIM37 (D7U2L) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, FC-FP	H	Endogenous	135	Rabbit IgG	#O94972	4591
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
	Flow Cytometry (Fixed/Permeabilized)					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	TRIM37 (D7U2L) Rabbit mAb recognizes endogenous levels of total TRIM37 protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His511 of human TRIM37 protein.					
Background	Tripartite motif containing protein 37 (TRIM37, also known as MUL1) 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). TRIM37 was initially described as the defining truncation mutation in mulibrey nanism (1). An E3 ubiquitin ligase, TRIM37 is responsible for the monoubiquitination of histone H2A at Lys119, and is amplified in over 40% of breast cancers (2,3). TRIM37 interacts with polycomb group proteins EZH2 and SUZ12, and contributes to histone H3K27 lysine tri-methylation and subsequent silencing of tumor suppressor genes (3). Oncogenic activity of TRIM37 has also been reported in pancreatic, hepatic, and colorectal cancers (4-7).					
Background References	1. Avela, K. et al. (2000) <i>Nat Genet</i> 25, 298-301. 2. Kallijärvi, J. et al. (2005) <i>Exp Cell Res</i> 308, 146-55. 3. Bhatnagar, S. et al. (2014) <i>Nature</i> 516, 116-20. 4. Jiang, J. et al. (2015) <i>Biochem Biophys Res Commun</i> 464, 1120-7. 5. Jiang, J. et al. (2016) <i>Tumour Biol</i> 37, 2629-34. 6. Zhao, P. et al. (2017) <i>Oncol Res</i> 25, 115-122. 7. Hu, C.E. and Gan, J. (2017) <i>Mol Med Rep</i> 15, 1057-1062.					

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 FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human
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