#36067 Store at -20C

RanGAP1 (D2T7T) Rabbit mAb



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	teactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 68, 82	Source/Isotype: Rabbit IgG	UniProt ID: #P46060	Entrez-Gene Id 5905	
Product Usage Information	Ap	plication		Dilution			
	We	estern Blotting			1:1000		
	Im	munoprecipitation			1:100		
	eC	LIP			1:200		
		For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.					
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 / Sensitivi		RanGAP1 (D2T7T) Rabbit mAb recognizes endogenous levels of total RanGAP1 protein. This are detects unmodified and SUMO-1 modified RanGAP1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RanGAP1 protein.					
Background	abili covi nuc sum con imp	Ran GTPase activating protein 1 (RanGAP1) regulates GTP hydrolysis by Ran, which is required for the ability of Ran to regulate nucleocytoplasmic shuttling (1). A significant fraction of cellular RanGAP1 is covalently modified by SUMO-1, which is required for relocalization of RanGAP1 from the cytoplasm to the nuclear pore complex and the mitotic spindle (2-5). Research studies demonstrate that RanGAP1 sumoylation is required for stable association of RanGAP1 with RanBP2. Together with the SUMO-conjugating enzyme UBC9/UBE2I, RanGAP1 and RanBP2 are part of a SUMO E3 ligase complex that is implicated in regulating nucleocytoplasmic protein trafficking (6-8). Phosphorylation of RanGAP1 occurs in a cell-cycle-dependent manner and may play a role in regulating RanGAP1 catalytic activity (9,10).					
Background Referen	2. M 3. M 4. M 5. J 6. H 7. W 8. Z 9. S	 Bischoff, F.R. et al. (1994) Proc Natl Acad Sci U S A 91, 2587-91. Mahajan, R. et al. (1997) Cell 88, 97-107. Matunis, M.J. et al. (1998) J Cell Biol 140, 499-509. Matunis, M.J. et al. (1996) J Cell Biol 135, 1457-70. Joseph, J. et al. (2002) J Cell Biol 156, 595-602. Hutten, S. et al. (2008) Mol Biol Cell 19, 2300-10. Werner, A. et al. (2012) Mol Cell 46, 287-98. Zhu, S. et al. (2009) Mol Cell 33, 570-80. Swaminathan, S. et al. (2004) J Cell Biol 164, 965-71. Takeda, E. et al. (2005) Cell Struct Funct 30, 69-80. 					

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 IP: Immunoprecipitation eCLIP: eCLIP

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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Limited Uses

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