RanGAP1 (D2T7T) Rabbit mAb





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| Applications: W, IP, eCLIP | Reactivity: H M R Mk | Sensitivity: Endogenous | MW (kDa): 68, 82 | Source/Isotype: Rabbit IgG | UniProt ID: #P46060 | Entrez-Gene Id: 5905 | | |
|--|---|---|---|---|--|-------------------------|--|--|
| Product Usage Information | | Application Western Blotting Immunoprecipitation eCLIP For more information a | bout the RBP-eCL | IP service please visit Ec | Dilution 1:1000 1:100 1:200 ipsebio. | | | |
| 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/Sens | pecificity/Sensitivity RanGAP1 (D2T7T) Rabbit mAb recognizes endogenous levels of total RanGAP1 protein. This a detects unmodified and SUMO-1 modified RanGAP1 protein. | | | | n. This antibody | | | |
| Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresidues near the amino terminus of human RanGAP1 protein. | | | | rresponding to | | | | |
| BackgroundRan GTPase activating protein 1 (RanGAP1) regulates GTP hydrolysis by Ran, which is requ ability of Ran to regulate nucleocytoplasmic shuttling (1). A significant fraction of cellular covalently modified by SUMO-1, which is required for relocalization of RanGAP1from the of the nuclear pore complex and the mitotic spindle (2-5). Research studies demonstrate that sumoylation is required for stable association of RanGAP1 with RanBP2. Together with th conjugating enzyme UBC9/UBE2I, RanGAP1 and RanBP2 are part of a SUMO E3 ligase cor implicated in regulating nucleocytoplasmic protein trafficking (6-8). Phosphorylation of RanGAP1 catal (9,10). | | | | | required for the ular RanGAP1 is the cytoplasm to e that RanGAP1 th the SUMO- e complex that is of RanGAP1 catalytic activity | | | |
| Background Re | ferences | 1. Bischoff, F.R. et al. (19 2. Mahajan, R. et al. (19 3. Matunis, M.J. et al. (19 4. Matunis, M.J. et al. (19 5. Joseph, J. et al. (2002) 6. Hutten, S. et al. (2008 7. Werner, A. et al. (2012 8. Zhu, S. et al. (2009) <i>M</i> 9. Swaminathan, S. et al 10. Takeda, E. et al. (200 | 994) Proc Natl Aca 97) Cell 88, 97-107 998) J Cell Biol 140 996) J Cell Biol 135 J Cell Biol 156, 59 1) Mol Biol Cell 19, 2) Mol Cell 46, 287 10J Cell 33, 570-80, 1. (2004) J Cell Biol 95) Cell Struct Fun | <i>d Sci U S A</i> 91, 2587-91. , 499-509. , 1457-70. 5-602. 2300-10. -98. 164, 965-71. <i>ct</i> 30, 69-80. | | | | |
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| Species Reactiv | ity | Species reactivity is dete | ermined by testing | g in at least one approve | d application (e.g., | western blot). | | |
| Western Blot Bu | uffer | IMPORTANT: For wester TBS, 0.1% Tween® 20 a | rn blots, incubate t 4°C with gentle s | ate membrane with diluted primary antibody in 5% w/v BSA, 1X tle shaking, overnight. | | | | |
| Applications Ke | у | W: Western Blotting IP: Immunoprecipitation eCLIP: eCLIP | | | | | | |
| Cross-Reactivity | у Кеу | H: Human M: Mouse R: Rat Mk: Monkey | | | | | | |
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