Store at -20C

4466

#

RAP80 (D1T6Q) Rabbit mAb



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Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #Q96RL1	Entrez-Gene Id: 51720		
Product Usage Information Storage		Application Western Blotting Immunofluorescence (Immunocytochemistry) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerc				Dilution 1:1000 1:400 rol and less than		
5		0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sens	sitivity	RAP80 (D1T6Q) Rabbit	ለAP80 (D1T6Q) Rabbit mAb recognizes endogenous levels of total RAP80 protein.					
Source / Purific	urce / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresports residues surrounding Gly321 of human RAP80 protein.				prresponding to			
Background	kgroundThe breast cancer type 1 susceptibility protein (BRCA1) is an E3 ubiquitin ligase that functions in maintenance of genome stability through regulation of the DNA damage response and DNA rep BRCA1 protein forms at least three distinct complexes (BRCA1 A, B, and C) with other DNA repair proteins, and these interactions are vital for regulation of BRCA1 protein function. The BRCA1-R4 complex (BRCA1 A complex) includes RAP80, BRCC36, BRE, Abraxas, and NBA1 and functions in 0 phase checkpoint control (reviewed in 1,2). The ubiquitously expressed receptor-associated protein 80 (RAP80, UIMC1) is required for recrui and stability of the BRCA1 A complex at sites of DNA damage (3). Research studies indicate that i absence of RAP80 in cells results in increased sensitivity to the topoisomerase II inhibitor etopos In the absence of functional RAP80, BRCA1 A complex function is suppressed and cells becomer sensitive to DNA damage-induced genome instability (5,6). Phosphorylation of RAP80 by CDK1/C at Ser177 regulates RAP80 function at the mitotic checkpoint (7). A naturally occurring in-frame deletion mutant within RAP80 likely alters RAP80 protein-protein interactions and is associated v increase in chromosomal abnormalities (8,9).					functions in the and DNA repair. TDNA repair the BRCA1-RAP80 unctions in G2/M and for recruitment adicate that the bitor etoposide (4). Ils become more 0 by CDK1/Cyclin B ag in-frame associated with an		
Background Re	ferences	1. Ohta, T. et al. (2011) 2. Huen, M.S. et al. (20 3. Wu, J. et al. (2012) <i>J</i> 4. Iijima, J. et al. (2010) 5. Bian, C. et al. (2012) 6. Yin, Z. et al. (2012) 7. Cho, H.J. et al. (2013 8. Nikkilä, J. et al. (2014) 9. Anamika et al. (2014)	<i>FEBS Lett</i> 585, 2830 10) <i>Nat Rev Mol Ce</i> . <i>Biol Chem</i> 287, 229 <i>Cancer Res</i> 70, 846 <i>PLoS One</i> 7, e4040 <i>Cancer Res</i> 72, 5080 <i>J Biol Chem</i> 288, 3 <i>Oncogene</i> 28, 18- <i>D J Biol Chem</i> 289, 1	6-44. // <i>Biol</i> 11, 138-48. 19-26. 67-74. 6. -90. 768-76. 43-52. 2852-62.				
Species Reactiv	ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				western blot).		
Western Blot B	uffer	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 Ke	ey .	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity	у Кеу	H: Human						
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