1/1/24, 7:42 AM Revision 3

Revision 3						
Phospho-BRIP1/FANCJ (Thr1133) Antibody					CHNOLOGY® 877-616-CELL (2355)	
St					orders@cellsignal.com	
86				Support:	877-678-TECH (8324)	
#11				Web:	info@cellsignal.com cellsignal.com	
3 Trask Lane Danvers Massachusetts 01923 USA For Research Use Only. Not for Use in Diagnostic Procedures.						
Applications: React WB, IP H N	ivity: Sensitivity:	MW (kDa): 145	Source: Rabbit	UniProt ID: #Q9BX63	Entrez-Gene Id: 83990	
Product Usage	Application			Dilutior	1	
Information	Western Blotting		1:1000			
	Immunoprecipitation			1:100	1:100	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity	Phospho-BRIP1/FANCJ (Thr1133) Antibody recognizes endogenous levels of BRIP1/FANCJ protein only when phosphorylated at Thr1133. This antibody also cross-reacts with a protein of unknown origin at ~130 kDa.					
Source / Purification Polyclonal antibodies are produced by imm to residues surrounding Thr1133 of human peptide affinity chromatography.						
Background	BACH1, also known as BRIP1 and FANCJ, is a DNA helicase involved in repair of DNA cross-links and double strand breaks (1-3). Interaction between phosphorylated BACH1 and BRCA1 is required for DNA damage-induced checkpoint signaling (3,4). Originally identified as a breast cancer susceptibility gene (1), the BACH1 gene is mutated in Fanconi anemia (5), a recessive disorder characterized by multiple congenital abnormalities, progressive bone marrow failure, and high cancer risk/predisposition. Research investigators have concluded that BACH1 interactions with BRCA1 and the presence of BACH1 mutations in patients with early onset breast cancer indicate that BACH1 may act as a tumor suppressor (6). Phosphorylation of BACH1 at Thr1133 is thought to be involved in regulation of the replication checkpoint and is required for the interaction of BACH1 with TopBP1 (7).					
Background References	 Cantor, S.B. et al. (2001) <i>Cell</i> 105, 149-60. Litman, R. et al. (2005) <i>Cancer Cell</i> 8, 255-65. Peng, M. et al. (2006) <i>Oncogene</i> 25, 2245-53. Shiozaki, E.N. et al. (2004) <i>Mol Cell</i> 14, 405-12. Kennedy, R.D. and D'Andrea, A.D. (2005) <i>Genes Dev</i> 19, 2925-40. Cantor, S.B. and Guillemette, S. (2011) <i>Future Oncol</i> 7, 253-61. Gong, Z. et al. (2010) <i>Mol Cell</i> 37, 438-46. 					
Species Reactivity	Species reactivity is deter	rmined by testing i	n at least one approv	ed 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					
Cross-Reactivity Key	X: Xenopus Z: zebrafish	nan M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster nopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse uinea Pig Rab: rabbit All: all species expected				
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