e at -20C	BRIP1/FANCJ Antibody		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#4578		Web:	info@cellsignal.com cellsignal.com		
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA		

Applications: Re WB	eactivity: H	Sensitivity: Endogenous	MW (kDa): 145	Source: Rabbit	UniProt ID: #Q9BX63	Entrez-Gene Id: 83990		
Product Usage Information	•	plication estern Blotting			Dilution 1:1000			
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		BRIP1/FANCJ Antibody detects endogenous levels of human BRIP1/FANCJ protein.						
Source / Purification		BRIP1/FANCJ Antibody is produced by immunizing rabbits with a synthetic peptide corresponding to amino acids near the carboxy terminus of human BRIP1/FANCJ. Antibodies are purified by Protein A and 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 Referenc	2. L 3. P 4. S 5. K 6. C	 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	Spec	cies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern 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						
Cross-Reactivity Key	X: X		B: bovine Dg: dog	Pg: pig Sc: S. cere	Mi: mink C: chicken Dr visiae Ce: C. elegans H	-		
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