BRIP1/FANCJ Antibody	Ст	Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
$\sim$	Support:	877-678-TECH (8324)	
228	Web:	info@cellsignal.com cellsignal.com	
#45	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 145	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9BX63	Entrez-Gene Id: 83990		
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/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.						
<b>Source / Purification</b> BRIP1/FANCJ Antibody is produced by immunizing rabbits w amino acids near the carboxy terminus of human BRIP1/FAN and peptide affinity chromatography.								
Background		<ul> <li>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.</li> <li>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).</li> <li>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).</li> </ul>						
Background Re	eferences		05) <i>Cancer Cell</i> 8, 2 6) <i>Oncogene</i> 25, 22 (2004) <i>Mol Cell</i> 14, D'Andrea, A.D. (200 illemette, S. (2011)	55-65. 145-53. 405-12. 5) <i>Genes Dev</i> 19, 2925-4( <i>Future Oncol</i> 7, 253-61.	0.			
Species Reactiv	vity	Species reactivity is do	etermined by testir	ig in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer		ር: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X ween® 20 at 4°C with gentle shaking, overnight.					
Applications K	ey	W: Western Blotting						
Cross-Reactivit	су Кеу	H: Human						
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