

Phospho-BRIP1/FANCJ (Thr1133) Antibody



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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit	UniProt ID: #Q9BX63	Entrez-Gene Id: 83990
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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 immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr1133 of human BRIP1/FANCJ protein. 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 References		 Cantor, S.B. et al. (2001) Cell 105, 149-60. Litman, R. et al. (2005) Cancer Cell 8, 255-65. Peng, M. et al. (2006) Oncogene 25, 2245-53. Shiozaki, E.N. et al. (2004) Mol Cell 14, 405-12. Kennedy, R.D. and D'Andrea, A.D. (2005) Genes Dev 19, 2925-40. Cantor, S.B. and Guillemette, S. (2011) Future Oncol 7, 253-61. Gong, Z. et al. (2010) Mol Cell 37, 438-46. 				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Black B. 66		IMPORTANT: F	and black to a large	and the second second second second		- F0//- DCA -63/

Western Blot Buffer

Applications Key

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.

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human Mk: Monkey

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