

BRE (D8Q1J) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NXR7	Entrez-Gene Id: 9577
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		BRE (D8Q1J) Rabbit mAb recognizes endogenous levels of total BRE protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln150 of human BRE protein.				
Background		The breast cancer susceptibility gene, BRCA1, codes for an E3 ubiquitin ligase that functions in the maintenance of genome stability through regulation of the DNA damage response and DNA repair. 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 function. The BRCA1 A complex includes Rap80, BRCC36, Abraxas, MERIT40/NBA1, and BRE/BRCC45 and functions in G2/M phase checkpoint control (reviewed in 1,2). MERIT40 and BRE maintain the stability of both the BRCA1 A complex and the cytoplasmic BRISC complex, which contains BRCC36 and ABRO1 but not BRCA1 (3). Researchers have shown that the expression level of BRE is related to patient survival in breast cancer (4), and it may predict a favorable outcome in acute myeloid leukemia (AML) (5,6). Studies have also shown that BRE is overexpressed in human hepatocellular carcinoma (7) and that overexpression of BRE can cause resistance to apoptotic signaling and promote tumor growth (7,8).				
Background References		 Ohta, T. et al. (2011) FEBS Lett 585, 2836-44. Huen, M.S. et al. (2010) Nat Rev Mol Cell Biol 11, 138-48. Hu, X. et al. (2011) J Biol Chem 286, 11734-45. Noordermeer, S.M. et al. (2012) Breast Cancer Res Treat 135, 125-33. Noordermeer, S.M. et al. (2011) Blood 118, 5613-21. Balgobind, B.V. et al. (2010) Leukemia 24, 2048-55. Chan, B.C. et al. (2008) Oncogene 27, 1208-17. Chui, Y.L. et al. (2010) Biochem Biophys Res Commun 391, 1522-5. 				

Species Reactivity Species reactivity is determine

Species reactivity is determined by testing in at least one approved 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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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