

#4578 Store at -20°C

BACH1/BRIP1 Antibody



✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W	H	145 kDa	Rabbit**
Endogenous			

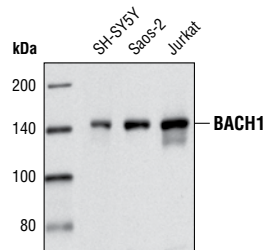
Background: BACH1, also known as BRIP1 and FANCD1, is a DNA helicase involved in repair of DNA cross-links and double strand breaks (1-3). Interaction between phosphorylated BACH1 and BRCA1 is required for DNA damage-induced checkpoint signaling (3,4). Originally identified as a breast cancer susceptibility 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. The interaction with BRCA1 and the existence of mutations in patients with early onset breast cancer indicate that BACH1 may act as a tumor suppressor.

Specificity/Sensitivity: BACH1/BRIP1 Antibody detects endogenous levels of human BACH1 protein.

Source/Purification: BACH1/BRIP1 Antibody is produced by immunizing rabbits with a synthetic peptide corresponding to amino acids near the carboxy terminus of human BACH1. Antibodies are purified by Protein A and peptide affinity chromatography.

Background References:

- (1) Cantor, S.B. et al. (2001) *Cell* 105, 149–60.
- (2) Litman, R. et al. (2005) *Cancer Cell* 8, 255–65.
- (3) Peng, M. et al. (2006) *Oncogene* 25, 2245–53.
- (4) Shiozaki, E.N. et al. (2004) *Mol Cell* 14, 405–12.
- (5) Kennedy, R.D. and D'Andrea, A.D. (2005) *Genes Dev* 19, 2925–40.



Western blot analysis of extracts from SH-SY5Y, Saos-2 and Jurkat cells using BACH1/BRIP1 Antibody.

Entrez-Gene ID #83990
Swiss-Prot Acc. #Q9BXG3

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.