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phospho-BRIP1/BACH1 (Ser990) Rabbit pAb

Catalog # AP98027

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BX63
Other Accession	Q9BX63
Reactivity	Human, Mouse
Predicted	Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	140867
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from human BRIP1 around the phosphorylation site of Ser990
Epitope Specificity	ST(p-S)PT
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the bZIP family. CNC subfamily.Contains 1 BTB (POZ) domain. Contains 1 bZIP domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a transcription factor that belongs to the cap'n'collar type of basic region leucine zipper factor family (CNC-bZip). The encoded protein contains broad complex, tramtrack, bric-a-brac/poxvirus and zinc finger (BTB/POZ) domains, which is atypical of CNC-bZip family members. These BTB/POZ domains facilitate protein-protein interactions and formation of homo- and/or hetero-oligomers. When this encoded protein forms a heterodimer with MafK, it functions as a repressor of Maf recognition element (MARE) and transcription is repressed. Multiple alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, May 2009].

Additional Information

Gene ID	83990
Other Names	FANCJ_HUMAN; BRIP1; BRCA1-associated C-terminal helicase 1; BRCA1-interacting protein C-terminal helicase 1 (BRCA1-interacting protein 1); DNA 5'-3' helicase FANCJ; 5.6.2.3; BACH1; FANCJ; BRCA1 interacting DNA helicase 1; BRCA1 interacting helicase 1; BRCA1 interacting protein C-terminal helicase 1; BRCA1/BRCA2-associated helicase 1; FANCJ helicase; BRCA1-associated C-terminal helicase; BRCA1 interacting protein 1; BRIP1/BACH1 (phospho-S990); p-BRIP1/BACH1; phospho-BRIP1/BACH1; BRIP1/BACH1 (phospho-Ser990)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	BRIP1 (HGNC:20473)
Function	DNA-dependent ATPase and 5'-3' DNA helicase required for the maintenance of chromosomal stability (PubMed:11301010, PubMed:14983014, PubMed:16116421, PubMed:16153896, PubMed:17596542, PubMed:36608669). Acts late in the Fanconi anemia pathway, after FANCD2 ubiquitination (PubMed:14983014, PubMed:16153896). Involved in the repair of DNA double-strand breaks by homologous recombination in a manner that depends on its association with BRCA1 (PubMed:14983014, PubMed:16153896). Involved in the repair of abasic sites at replication forks by promoting the degradation of DNA-protein cross-links: acts by catalyzing unfolding of HMCES DNA-protein cross-link via its helicase activity, exposing the underlying DNA and enabling cleavage of the DNA- protein adduct by the SPRTN metalloprotease (PubMed:16116421, PubMed:36608669). Can unwind RNA:DNA substrates (PubMed:14983014). Unwinds G-quadruplex DNA; unwinding requires a 5'-single stranded tail (PubMed:18426915, PubMed:20639400).
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Ubiquitously expressed, with highest levels in testis.

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