BCCIP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BCCIP, Polyclonal Antibody
Full Product Name	Anti-BCCIP Antibody, Rabbit Polyclonal
Product Gene Name	anti-BCCIP antibody
Product Synonym Names	BRCA2/BCCIP Antibody, Rabbit PAb, Antigen Affinity Purified; BRCA2 and CDKN1A interacting protein; Anti-TOK-1 Antibody; Anti-TOK1 Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human BRCA2/BCCIP
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	33,242 Da
Immunogen	Recombinant Human BRCA2/BCCIP protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human BRCA2/BCCIP (rh BRCA2/BCCIP). BRCA2/BCCIP specific IgG was purified by Human BRCA2/BCCIP affinity chromatography.
Applications Tested/Suitable for anti-BCCIP antibody	ELISA (EIA)
Application Notes for anti-BCCIP antibody	ELISA: 1:5000-1:10,000
Related Product Information for anti-BCCIP antibody	BCCIP was originally identified as a BRCA2 and CDKN1A interacting protein that has been implicated in maintenance of genomic stability, cell cycle regulation, and microtubule dynamics. The secondary genetic alternations may overcome the progression suppression imposed by BCCIP deficiency through a synthetic viability mechanism. Knockdown of YY1 inhibited the binding of BCCIP itself at BCCIP promoter region proximal to TSS, demonstrating that transcriptional regulation of the YY1 on BCCIP can be modulated by BCCIP itself in a YY1-dependent fashion. BCCIP (BRCA2 and CDKN1A interacting protein) plays a critical role in maintaining the critical functions of p53 in tumor suppression and response to therapy. Celecoxib affects the functions of p53 and inhibits the recovery from the irradiation-induced injury by up-regulating the expression of BCCIP, and subsequently regulates the expressions of genes such as p21 and Cyclin B1 to enhance the radiosensitivity of HCT116 cells in a COX-2 independent manner.
Other Notes	Small volumes of anti-BCCIP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BCCIP purchase	MBS8107354 is an antibody targeting BCCIP. Also known as Anti-BCCIP Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BCCIP. It may not necessarily be applicable to this product.

NCBI GI #	14602523
NCBI GeneID	56647
NCBI Accession #	AAH09771.1
UniProt Secondary Accession #	Q8ND15; Q96GC4; Q9P288; B3KP45
UniProt Related Accession #	Q9P287
NCBI Official Full Name	BRCA2 and CDKN1A interacting protein
NCBI Official Synonym Full Names	BRCA2 and CDKN1A interacting protein
NCBI Official Symbol	BCCIP
NCBI Official Synonym Symbols	TOK1; TOK-1
Protein Family	BRCA2 and CDKN1A-interacting protein
NCBI Protein Information	BRCA2 and CDKN1A-interacting protein; BCCIPalpha; BCCIPbeta; BRCA2 and Cip1/p21 interacting protein; TOK-1alpha; TOK-1beta; cdk inhibitor p21 binding protein; p21- and CDK-associated protein 1; protein TOK-1
NCBI Summary for BCCIP	This gene product was isolated on the basis of its interaction with BRCA2 and p21 proteins. It is an evolutionarily conserved nuclear protein with multiple interacting domains. The N-terminal half shares moderate homology with regions of calmodulin and M-calpain, suggesting that it may also bind calcium. Functional studies indicate that this protein may be an important cofactor for BRCA2 in tumor suppression, and a modulator of CDK2 kinase activity via p21. This protein has also been implicated in the regulation of BRCA2 and RAD51 nuclear focus formation, double-strand break-induced homologous recombination, and cell cycle progression. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
Research Articles on BCCIP	**1.** Results indicate that BCCIP germ line mutations are unlikely to be a major contributor to familial breast/ovarian cancer risk in our population.
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