

## Recombinant Human BCCIP, GST-tagged

**Cat. No.** BCCIP-10171H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human BCCIP protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 1-314a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>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.</p> |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | BCCIP BRCA2 and CDKN1A interacting protein [ Homo sapiens ]                                                                                                                                                                                                                       |
| <b>Official Symbol</b>     | BCCIP                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | BCCIP; BRCA2 and CDKN1A interacting protein; BRCA2 and CDKN1A-interacting protein; BCCIPalpha; TOK 1; BCCIPbeta; TOK-1beta; TOK-1alpha; protein TOK-1; cdk inhibitor p21 binding protein; p21- and CDK-associated protein 1; BRCA2 and Cip1/p21 interacting protein; TOK1; TOK-1; |
| <b>Gene ID</b>             | 56647                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_016567                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | NP_057651                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | 611883                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | Q9P287                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 10q26.2                                                                                                                                                                                                                                                                           |
| <b>Function</b>            | kinase regulator activity; protein binding;                                                                                                                                                                                                                                       |

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