

## Recombinant Human BCCIP Protein, GST-tagged

**Cat. No.** BCCIP-131H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human BCCIP full-length ORF ( AAH09771, 1 a.a. - 314 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | 60.17 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | MASRSKRRAVESGVPQPPDPPVQRDEEEEKEVENEDDDDDSDKEKDEEDEVIDE<br>EVNIEFEAYSLSNDNDYDGIKKLLQQLFLKAPVNTAELTDLLIQNHIGSVIKQTDVSED<br>SNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVLRFCCKNCEKSMVEQLDKFLND<br>TTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCKGKYFYLLISKTFVEA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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EKNNSKKKPSNKKKAALMFANAEEEEFFYEKAILKFNYSVQEESDTCLGGKWSFDDV  
PMTPLRTVMLIPGDKMNEIMDKLKEYLSV

**Notes** Best use within three months from the date of receipt of this protein.

**Storage** Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [BCCIP BRCA2 and CDKN1A interacting protein \[ Homo sapiens \]](#)

**Official Symbol** [BCCIP](#)

**Synonyms** 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;

**Gene ID** [56647](#)

**mRNA Refseq** [NM\\_016567](#)

**Protein Refseq** [NP\\_057651](#)

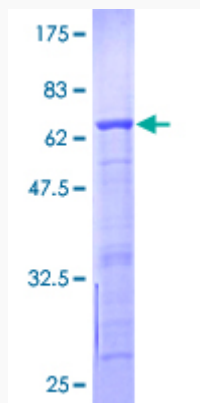
**MIM** [611883](#)

**UniProt ID** [Q9P287](#)

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