

Recombinant Human BCCIP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BCCIP-4365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BCCIP MS Standard C13 and N15-labeled recombinant protein (NP_510868) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	36.1 kDa
AA Sequence	MASRSKRRAVESGVPQPPDPPVQRDEEEEKEVENEDDDSDKEKDEEDEVIDE EVNIEFEAYSLSNDNDYDGIKKLLQQLFLKAPVNTAELTDLLIQQNHIGSVIKQTDVSED SNDDMDEDEVFGFISLLNLTERKGTQCVEQIQELVLRFCCKNCEKSMVEQLDKFLND TTKPVGLLLSERFINVPPQIALPMYQQLQKELAGAHRTNKPCGKCYFYLLISKTFVEA

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EKNNSKKKPSNKKKAALMFANAEFFYEKAILKFNYSVQEESDTCLGGKWSFDDV
PMTPLRTVMLIPGDKMNEIMDKLKEYLSVTRTRPLEQKLISEEDLAANDILDYKDDDD
KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name BCCIP BRCA2 and CDKN1A interacting protein [Homo sapiens (human)]

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_078468

Protein Refseq NP_510868

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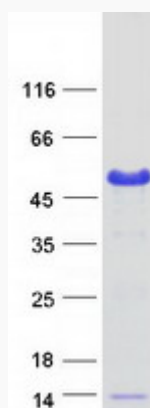
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MIM 611883

UniProt ID Q9P287

SDS-PAGE



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