

Recombinant human BCCIP protein

Catalog Number: ATGP2748

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-314aa

UniProt No.

Q9P287

NCBI Accession No.

NP_510868

Alternative Names

BRCA2 and CDKN1A interacting protein, TOK-1, TOK1

PRODUCT SPECIFICATION

Molecular Weight

38.6 kDa (339aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BCCIP 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. Recombinant human BCCIP protein,

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSEFMASRS KRRAVESGVP QPPDPPVQRD EEEEKEVENE DEDDDSDKE
KDEEDEVIDE EVNIEFEAYS LSDNDYDGIK KLLQQLFLKA PVNTAELTDL LIQQNHIGSV IKQTDVSEDS NDDMDEDEVF
GFISLLNLTE RKGTCQCEQI QELVLRFCCK NCEKSMVEQL DKFLNDTTKP VGLLLSERFI NVPPQIALPM YQQLQKELAG
AHRTNKPCGK CYFYLLISKT FVEAGKNNSK KKPSNKKKAA LMFANAEFEF FYEKAILKFN YSVQEESDTC LGGKWSFDDV
PMTPLRTVML IPGDKMNEIM DKLKEYLSV

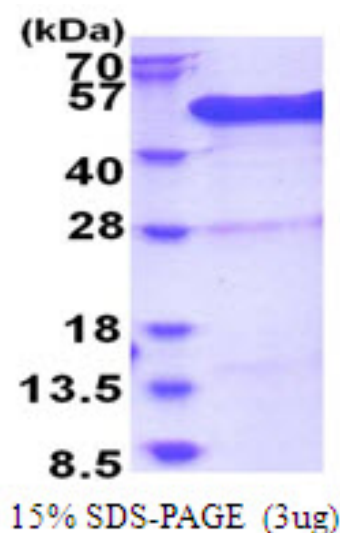
General References

Luedeke,M., et al. (2009) Cancer Epidemiol. Biomarkers Prev. 18 (11), 3030-3035

Fan,J., et al. (2009) Cell Cycle 8 (18), 3019-3024

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.