

Recombinant human NABP1 protein

Catalog Number: ATGP2353

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-204aa

UniProt No.

Q96AH0

NCBI Accession No.

NP_001026886

Alternative Names

Nucleic acid binding protein 1, OBFC2A, SOSS-B2, SSB2

PRODUCT SPECIFICATION

Molecular Weight

24.8 kDa (227aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

Purity

> 95% 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

Nucleic acid binding protein 1, also known as NABP1, is component of the SOSS complex, a multiprotein complex that functions downstream of the MRN complex to promote DNA repair and G2/M checkpoint. In the SOSS complex, the protein acts as a sensor of single-stranded DNA that binds to single-stranded DNA, in particular to polypyrimidines. The SOSS complex associates with DNA lesions and influences diverse endpoints in the cellular DNA damage response including cell-cycle checkpoint activation, recombinational repair and maintenance of genomic stability. This protein is required for efficient homologous recombination-dependent repair of double-

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strand breaks (DSBs) and ATM-dependent signaling pathways. Recombinant human NABP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MNRVNDP LIFIRDIKPG LKNLNVVFIV LEIGRVTKTK DGHEVRSCVKV ADKTGSITIS
VWDEIGGLIQ PGDIIRLTRG YASMWKGCLT LYTGRGGELQ KIGEFCEMVYS EVPNFSEPNP DYRGQQNKGA QSEQKNNSMN
SNMGTGTFGP VGNGVHTGPE SREHQFSHAG RSNRGLINP QLQGTASNQT VMTTISNGRD PRRAFKR

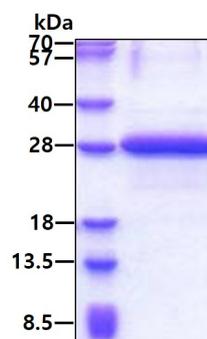
General References

Li Y., et al. (2009) J. Biol. Chem. 284:23525-23531

Huang J., et al. (2009) Mol. Cell. 35:384-393

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain