# 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

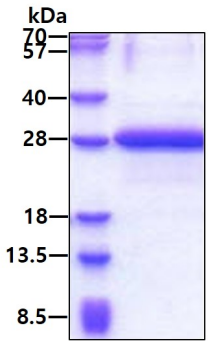
<MGSSHHHHHH SSGLVPRGSH MGS>MNRVNDP LIFIRDIKPG LKNLNVVFIV LEIGRVTKTK DGHEVRSCKV ADKTGSITIS VWDEIGGLIQ PGDIIRLTRG YASMWKGCLT LYTGRGGELQ KIGEFCMVYS EVPNFSEPNP DYRGQQNKGA QSEQKNNSMN SNMGTGTFGP VGNGVHTGPE SREHQFSHAG RSNGRGLINP QLQGTASNQT VMTTISNGRD PRRAFKR

### 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




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