

Recombinant Human nucleic acid binding protein 1, His-tagged

Cat. No. NABP1-270H **Lot. No.** (See product label)

SPECIFICATION

Product Overview NABP1, 1-204aa, Human, His tag, E.coli

Species Human

Source E.coli

ProteinLength 1-204 a.a.

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-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.

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

Molecular Mass 24.8 kDa (227aa) confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMNRVNDP LIFIRDIKPG LKNLNVVFIV LEIGRVTKTK DGHEVRSCVK ADKTGSITIS VWDEIGGLIQ PGDIIRLTRG YASMWKGCLT LYTGRGGELQ KIGEFMVYS EVPNFSEPNP DYRGQQNKGA QSEQKNNSMN SNMGTGTFGP VGNGVHTGPE SREHQFSHAG RSNGRGLINP QLQGTASNQT VMTTISNGRD PRRAFKR
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	NABP1 nucleic acid binding protein 1 [Homo sapiens (human)]
Official Symbol	NABP1
Synonyms	NABP1; SSB2; OBFC2A; SOSS-B2; nucleic acid binding protein 1; SOSS complex subunit B2; sensor of ssDNA subunit B2; nucleic acid-binding protein 1; single-stranded DNA-binding protein 2; sensor of single-strand DNA complex subunit B2; oligonucleotide/oligosaccharide-binding fold containing 2A; oligonucleotide/oligosaccharide-binding fold-containing protein 2A
Gene ID	64859
mRNA Refseq	NM_001031716
Protein Refseq	NP_001026886

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MIM	612103
UniProt ID	Q96AH0
Chromosome Location	2q32.3
Function	RNA binding; single-stranded DNA binding

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