

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA