
Product Data Sheet

Product Name: NABP1 Human
 Cat. No.: GP23998
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nucleic Acid Binding Protein 1; OBFC2A; Sensor Of Single-Strand DNA Complex Subunit B2; Single-Stranded DNA-Binding Protein 2; SSB2; Oligonucleotide/Oligosaccharide-Binding Fold Containing 2A; Nucleic Acid-Binding Protein 1; Oligonucleotide/Oligosaccharide-Binding Fold-Containing Protein 2A; Sensor Of SsDNA Subunit B2; SOSS-B2; SOSS Complex Subunit B2; hSSB2.		
Amino Acid Sequence	MGSSHHHHH SSGLVPRGSH MGSMNRVNDP LIFIRDIKPG LKNLNVVFIV LEIGRVTKTK DGHEVRSCKVADKTGSITIS VWDEIGGLIQ PGDIIRLTRG YASMWKGCLT LYTGRGGELQ KIGFCMVYS EVPNFSEPNPDYRGQQNKGA QSEQKNNSMN SNMGTGTFGP VGNGVHTGPE SREHQFSHAG RSNRGLINP QLQGTASNQT VMTTISNGRD PRRAFKR.		
Formulation	NABP1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) 0.2M, NaCl, 50% glycerol and 2mM DTT.		

Introduction

Nucleic acid binding protein 1 is a part of the SOSS complex, a multiprotein complex which functions downstream of the MRN complex to promote DNA repair and G2/M checkpoint. In the SOSS complex, NABP1 acts as a sensor of single-stranded DNA which binds to single-stranded DNA, in particular to polypyrimidines. The SOSS complex links with DNA lesions and affects diverse endpoints in the cellular DNA damage response including cell-cycle checkpoint activation, recombinational repair and maintenance of genomic stability. NABP1 is essential for efficient homologous recombination-dependent repair of double-strand breaks (DSBs) and ATM-dependent signaling pathways.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NABP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 227 amino acids (1-204 a.a) and having a molecular mass of 24.8kDa.

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