9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

NABP1 Human

Nucleic Acid Binding Protein 1 Human Recombinant
RCP1445

Product Overview

Name	NABP1 Human
Description	
Nucleic Acid Binding Protein 1 Human Recombinant	
Accession (Primary)	Q96AH0
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.	
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 .	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
NABP1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) 0.2M, NaCl, 50% glycerol and 2mM DTT.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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

Precautions

NABP1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q96AH0)