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32-4278: Recombinant Human Nucleic Acid Binding Protein 1

Alternative Name : 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/Oligosacc

Description

Source : Escherichia Coli. 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.NABP1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	NABP1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) 0.2M, NaCl, 50% glycerol and 2mM DTT.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMNRVNDP LIFIRDIKPG LKNLNVVFIV LEIGRVTKTK DGHEVRSCKV ADKTGSITIS VWDEIGGLIQ PGDIIRLTRG YASMWKGCLT LYTGRGGELQ KIGEFCMVYS EVPNFSEPNP DYRGQQNKGA QSEQKNNSMN SNMGTGTFGP VGNGVHTGPE SREHQFSHAG RSNGRGLINP QLQGTASNQT VMTTISNGRD PRRAFKR.