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

产品货号: TP03080

第三版

别名:Nucleic acid binding protein 1, OBFC2A, SOSS-B2, SSB2

描述: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.

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

分子量:24.8 kDa (227aa) confirmed by MALDI-TOF

序列:

MGSSHHHHHSSGLVPRGSHMGSMNRVNDPLIFIRDIKPGLKLNLVFVILEIGRVTKTKDGHEVRSCKVADKTGSITISV
WDEIGGLIQPGDIIRLTRGYASMWKGCLTYTGRGGELQKIGEFM VYSEVPNFSEPNPDYRGQQNKGAQSEQKNNSMN
SNMGTGTFGPVGNVHTGPESREHQFSHAGRSNGRGLINPQLQGTASNQTVMTTISNGRDPRAFKR

纯度:> 95% by HPLC

浓度:0.5mg/ml (determined by Bradford assay)

内毒素:<1.0 EU per 1 ug of protein (determined by LAL method)

存储:+4 ° C 保存 (1-2 周). 长期保存在-20 ° C或者-70 ° C. 避免反复冻融.