

核酸结合蛋白 2 抗体

产品货号： mlR19571

英文名称： OBFC2B

中文名称： 核酸结合蛋白 2 抗体

别 名： 2610036N15Rik; hSSB1; LP3587; MGC125161; MGC2731; MGC30353; Nabp2; SOSB1_HUMAN; Nucleic acid binding protein 2; Oligonucleotide/oligosaccharide binding fold containing 2B; Oligonucleotide/oligosaccharide binding fold containing protein 2B; RGD1308158; Sensor of single strand DNA complex subunit B1; Sensor of ssDNA subunit B1; Single stranded DNA binding protein 1; SOSS complex subunit B1; SSB1.

研究领域： 细胞生物 结合蛋白 表观遗传学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Cow,

产品应用： IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分 子 量： 22kDa

细胞定位： 细胞核

性 状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human OBFC2B:131-211/211

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : Single-stranded DNA (ssDNA)-binding proteins, such as OBFC2B, are ubiquitous and essential for a variety of DNA metabolic processes, including replication, recombination, and detection and repair of damage (Richard et al., 2008 [PubMed 18449195]).[supplied by OMIM, Jun 2008]

Function:

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, 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. Required for efficient homologous recombination-dependent repair of double-strand breaks (DSBs) and ATM-dependent signaling pathways.

Subunit:

Component of the SOSS complex, composed of SOSS-B (SOSS-B1/NABP2 or SOSS-B2/NABP1), SOSS-A/INTS3 and SOSS-C/INIP. SOSS complexes containing SOSS-B1/NABP2 are more abundant than complexes containing SOSS-B2/NABP1. Directly interacts with ATM, SOSS-A/INTS3 and RAD51. Interacts with INTS7.

Subcellular Location:

Nuclear. Localizes to nuclear foci following DNA damage.

Post-translational modifications:

Phosphorylated by ATM in response to DNA damage. Phosphorylation prevents degradation by the proteasome, hence stabilization of the protein and accumulation within cells.

Similarity:

Belongs to the SOSS-B family. SOSS-B1 subfamily.

Contains 1 OB DNA-binding domain.

SWISS:

Q9BQ15

Gene ID:

79035

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.