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OBFC2A (m): 293T Lysate: sc-122213

BACKGROUND

The SOSS complex is a multiprotein complex that promotes DNA repair and the G₂/M checkpoint, and functions downstream of the MRN complex. 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. A component of the SOSS complex, OBFC2A (oligonucleotide/oligosaccharide-binding fold-containing protein 2A), also known as SSBP2 (SOSS complex subunit B2), is a 204 amino acid protein that acts as a sensor of single-stranded DNA. OBFC2A binds to single-stranded DNA, particularly polypyrimidines, and is also required for efficient homologous recombination-dependent repair of double-strand breaks (DSBs) and ATM-dependent signaling pathways. Localizing to nucleus, OBFC2A is also found at nuclear foci following DNA damage.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Nabp1 (mouse) mapping to 1 C1.1.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

OBFC2A (m): 293T Lysate represents a lysate of mouse OBFC2A transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

OBFC2A (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive OBFC2A antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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