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OBFC2B Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11591b

Product Information

Application	WB, E
Primary Accession	Q9BQ15
Other Accession	Q3SWT1, Q8R2Y9, A6QLK2, NP_076973.1
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB29099
Calculated MW	22338
Antigen Region	183-211

Additional Information

Gene ID	79035
Other Names	SOSS complex subunit B1, Nucleic acid-binding protein 2, Oligonucleotide/oligosaccharide-binding fold-containing protein 2B, Sensor of single-strand DNA complex subunit B1, Sensor of ssDNA subunit B1, SOSS-B1, Single-stranded DNA-binding protein 1, hSSB1, NABP2, OBFC2B, SSB1
Target/Specificity	This OBFC2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 183-211 amino acids from the C-terminal region of human OBFC2B.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	OBFC2B Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NABP2

Synonyms	OBFC2B, SSB1
Function	Component of the SOSS complex, a multiprotein complex that functions downstream of the MRN complex to promote DNA repair and G2/M checkpoint (PubMed:25249620). 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.
Cellular Location	Nucleus Note=Localizes to nuclear foci following DNA damage. Foci formation is not cell-cycle dependent. Partial colocalization with RAD51 after ionizing radiation treatment

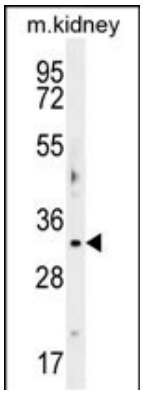
Background

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].

References

Skaar, J.R., et al. J. Cell Biol. 187(1):25-32(2009)
Li, Y., et al. J. Biol. Chem. 284(35):23525-23531(2009)
Huang, J., et al. Mol. Cell 35(3):384-393(2009)
Richard, D.J., et al. Nature 453(7195):677-681(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)

Images



OBFC2B Antibody (C-term) (Cat. #AP11591b) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the OBFC2B antibody detected the OBFC2B protein (arrow).