Recombinant Mouse Ssbp1 Protein, Myc/DDK-tagged

Cat. No. Ssbp1-6140M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length single-stranded DNA binding protein 1 (Ssbp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Binds preferentially and cooperatively to pyrimidine rich single-stranded DNA (ss-DNA). In vitro, required to maintain the copy number of mitochondrial DNA (mtDNA) and plays crucial roles during mtDNA replication that stimulate activity of the replisome components POLG and TWNK at the replication fork. Promotes the activity of the gamma complex polymerase POLG, largely by organizing the template DNA and eliminating secondary structures to favor ss-DNA conformations that facilitate POLG activity. In addition it is able to promote the 5'-3' unwinding activity of the mtDNA helicase TWNK. May also function in mtDNA repair.
Molecular Mass	17.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ssbp1 single-stranded DNA binding protein 1 [Mus musculus (house mouse)]
Official Symbol	Ssbp1
Synonyms	SSBP1; single-stranded DNA binding protein 1; single-stranded DNA-binding protein, mitochondrial; mt-SSB; MtSSB; mtDBP; 2810480P10Rik; G630031O20Rik
Gene ID	381760
mRNA Refseq	NM_212468
Protein Refseq	NP_997633
UniProt ID	Q9CYR0

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