



## Rabbit Anti-SOSSC antibody

SL9491R

<b>Product Name:</b>	SOSSC
<b>Chinese Name:</b>	单链DNABinding protein相互作用蛋白1
<b>Alias:</b>	Chromosome 9 open reading frame 80; hSSBIP1; MISE; RP11-276E15.2; Sensor of single-strand DNA complex subunit C; Sensor of ssDNA subunit C; Single-stranded DNA-binding protein-interacting protein 1; SOSS C; SOSS complex subunit C; SOSS-C; SOSSC; SOSSC_HUMAN; SSB-interacting protein 1; Ssbip1; C9orf80.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Pig,Cow,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	11kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human SOSSC/C9orf80:11-80/104
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The SOSS (Sensor of single-strand DNA) complex consists of multiple proteins that promote DNA repair and G2/M checkpoint downstream of the MRN (Mre11, Rad50 and Nbs1) complex. The complex is composed of SSBP1, INTS3 and C9orf80. Specifically, the SOSS complex binds to ssDNA at DNA lesions that influences diverse

endpoints in the cellular DNA damage response. The complex is required for efficient homologous recombination-dependent repair of double-stranded breaks and ATM-dependent signaling pathways. C9orf80, also known as SOSS complex subunit C and Single-stranded DNA-binding protein-interacting protein 1 (SSBIP1), is a 104 amino acid nuclear protein that is a component of the SOSS complex. Upon DNA damage, C9orf80 along with other components of the SOSS complex migrate to the nucleus. There are two isoforms of C9orf80 that are produced as a result of alternative splicing events.

**Function:**

Component of the SOSS complex, a multiprotein complex that functions downstream of the MRN complex to promote DNA repair and G2/M checkpoint. The SOSS complex associates with single-stranded DNA at 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. Interacts with INTS3; the interaction is direct.

**Subcellular Location:**

Nucleus. Localizes to nuclear foci following DNA damage.

**Similarity:**

Belongs to the SOSS-C family.

**SWISS:**

Q9NRY2

**Gene ID:**

58493

**Database links:**

[Entrez Gene: 58493](#)Human

[Omim: 613273](#)Human

[SwissProt: Q9NRY2](#)Human

[Unigene: 658575](#)Human

**Important Note:**

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

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