

# Product datasheet

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ARG58270 anti-SSRP1 antibody

Package: 100 μl Store at: -20°C

### **Summary**

Product Description Rabbit Polyclonal antibody recognizes SSRP1

Tested Reactivity Hu

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name SSRP1

Species Human

Immunogen Recombinant fusion protein corresponding to aa. 1-300 of Human SSRP1 (NP\_003137.1).

Conjugation Un-conjugated

Alternate Names Structure-specific recognition protein 1; Chromatin-specific transcription elongation factor 80 kDa

subunit; hSSRP1; FACT complex subunit SSRP1; T160; FACT 80 kDa subunit; FACTp80; FACT80;

Facilitates chromatin transcription complex subunit SSRP1; Facilitates chromatin transcription complex

80 kDa subunit; FACT; Recombination signal sequence recognition protein 1

## **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SW620	
Observed Size	85 kDa	

#### **Properties**

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol

SSRP1

Gene Full Name

structure specific recognition protein 1

Background

The protein encoded by this gene is a subunit of a heterodimer that, along with SUPT16H, forms chromatin transcriptional elongation factor FACT. FACT interacts specifically with histones H2A/H2B to effect nucleosome disassembly and transcription elongation. FACT and cisplatin-damaged DNA may be crucial to the anticancer mechanism of cisplatin. This encoded protein contains a high mobility group box which most likely constitutes the structure recognition element for cisplatin-modified DNA. This protein also functions as a co-activator of the transcriptional activator p63. An alternatively spliced transcript variant of this gene has been described, but its full-length nature is not known. [provided by RefSeq, Jul 2008]

Function

Component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II. The FACT complex is probably also involved in phosphorylation of 'Ser-392' of p53/TP53 via its association with CK2 (casein kinase II). Binds specifically to double-stranded DNA and at low levels to DNA modified by the antitumor agent cisplatin. May potentiate cisplatin-induced cell death by blocking replication and repair of modified DNA. Also acts as a transcriptional coactivator for p63/TP63. [UniProt]

Calculated Mw

81 kDa

PTM

Phosphorylated by CK2 following UV but not gamma irradiation. Phosphorylation inhibits its DNA-binding activity.

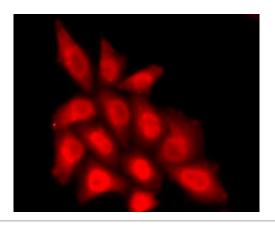
Ubiquitinated. Polyubiquitinated following caspase cleavage resulting in degradation of the N-terminal ubiquitinated part of the cleaved protein.

Sumoylated. [UniProt]

Cellular Localization

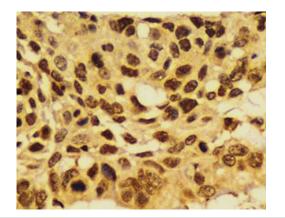
Chromosome, Nucleus, nucleolus. [UniProt]

## **Images**



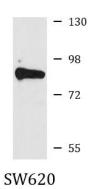
#### ARG58270 anti-SSRP1 antibody ICC/IF image

 $Immun of luorescence: \ He La\ cells\ stained\ with\ ARG58270\ anti-SSRP1\ antibody.$ 



## ARG58270 anti-SSRP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human esophageal cancer stained with ARG58270 anti-SSRP1 antibody at 1:100 dilution.



## ARG58270 anti-SSRP1 antibody WB image

Western blot: 25  $\mu g$  of SW620 cell lysate stained with ARG58270 anti-SSRP1 antibody at 1:1000 dilution.