

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

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

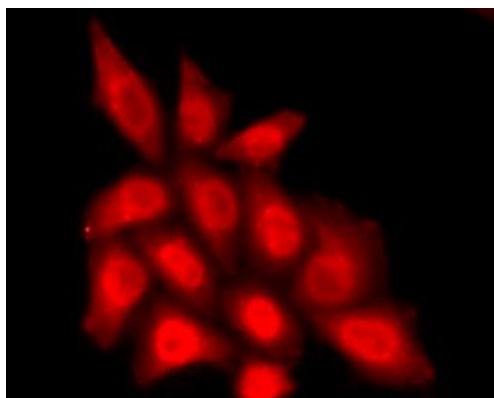
Note

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

Bioinformation

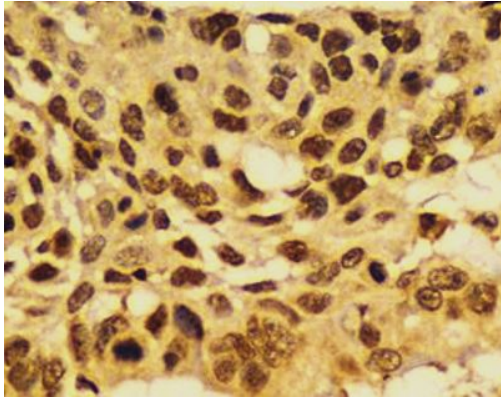
Gene Symbol	SSRP1
Gene Full Name	structure specific recognition protein 1
Background	The protein encoded by this gene is a subunit of a heterodimer that, along with SUPT16H, forms chromatin transcriptional elongation factor FACT. FACT interacts specifically with histones H2A/H2B to effect nucleosome 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



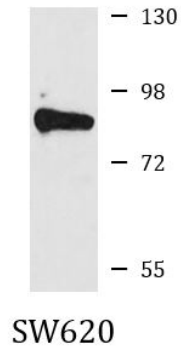
ARG58270 anti-SSRP1 antibody ICC/IF image

Immunofluorescence: HeLa 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 µg of SW620 cell lysate stained with ARG58270 anti-SSRP1 antibody at 1:1000 dilution.