


Product datasheet

Anti-SSRP1 antibody ab21584

★★★★☆ [2 Abreviews](#) [4 References](#) [2 Images](#)

Overview

Product name	Anti-SSRP1 antibody
Description	Rabbit polyclonal to SSRP1
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Dog 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 600 to the C-terminus of Human SSRP1. Read Abcam's proprietary immunogen policy (Peptide available as ab22404 .)
Positive control	This antibody gave a positive signal for Western Blot in U2OS whole cell lysate. This antibody gave a positive signal for Immunofluorescence in HEK293; HeLa; HepG2; MCF7.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

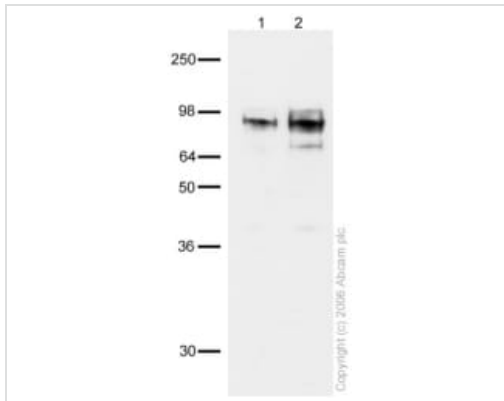
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab21584 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.
WB	★★★★★ (1)	1/500 - 1/1000. Detects a band of approximately 90 kDa (predicted molecular weight: 81 kDa).

Target

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.
Sequence similarities	Belongs to the SSRP1 family. Contains 1 HMG box DNA-binding domain.
Domain	The HMG box DNA-binding domain mediates DNA-binding. It has both affinity and specificity for DNA damaged globally with cisplatin.
Post-translational modifications	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.
Cellular localization	Nucleus. Chromosome. Colocalizes with RNA polymerase II on chromatin. Recruited to actively transcribed loci.

Images



Western blot - Anti-SSRP1 antibody (ab21584)

All lanes : Anti-SSRP1 antibody (ab21584) at 1/500 dilution

Lane 1 : U2OS cell lysate

Lane 2 : U2OS cell lysate treated with ionizing radiation

Developed using the ECL technique.

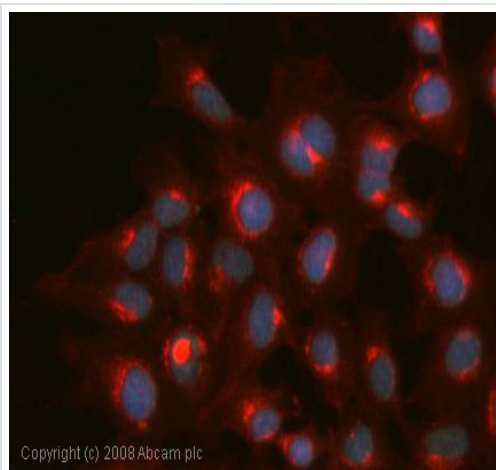
Performed under reducing conditions.

Predicted band size: 81 kDa

Observed band size: 90 kDa

Additional bands at: 70 kDa (possible cleavage fragment), 70 kDa (possible cross reactivity)

From a 60 mm dish, cells were scraped into 75 ul of 2X laemmli buffer and 20ul was loaded onto the SDS-PAGE gel. ab21584 recognizes a protein at approximately 90 kDa which corresponds closely to the size of SSRP1.



Immunocytochemistry/ Immunofluorescence - Anti-SSRP1 antibody (ab21584)

ICC/IF image of ab21584 stained human HEK 293 cells. The cells were methanol fixed (5 min), permeabilised in 0.1% PBS-Tween (20 min) and incubated with the antibody (ab21584, 5µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue). This antibody also gave a positive IF result in HeLa, HepG2 and MCF7 cells.

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