

Product datasheet

Anti-SSRP1 antibody [3E4] ab26229

★★★★★ 1 Abreviews 1 References 1 Image

Overview

Product name	Anti-SSRP1 antibody [3E4]
Description	Mouse monoclonal [3E4] to SSRP1
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment (Human)
Positive control	HeLa cell lysate
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Affinity purified
Clonality	Monoclonal
Clone number	3E4
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab26229 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
WB		Use a concentration of 1 µg/ml. 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.

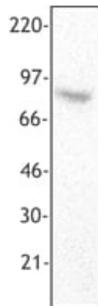
Post-translational modifications

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 [3E4]
(ab26229)

Anti-SSRP1 antibody [3E4] (ab26229) at 1 μ g/ml + HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate ([ab7898](#))

Developed using the ECL technique.

Predicted band size: 81 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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