

Rabbit SSRP1 Polyclonal Antibody | anti-SSRP1 antibody

SSRP1 Antibody

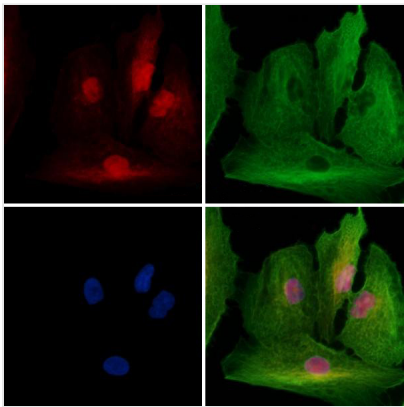
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329129	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(86%), Rabbit(100%), Chicken(100%), Xenopus(100%)	ELISA

PRODUCT SYNONYMS

SSRP1; Polyclonal Antibody; SSRP1 Antibody; Chromatin-specific transcription elongation factor 80 kDa subunit; Cisplatin DNA SSRP; Facilitates chromatin remodeling 80 kDa subunit; Facilitates chromatin transcription complex 80 kDa subunit; Facilitates chromatin transcription complex subunit SSRP1; FACT 80 kDa subunit; FACT complex subunit SSRP1; FACT80; FACTp80; hSSRP1; Recombination signal sequence recognition protein 1; Recombination signal sequence recognition protein; SSRP 1; SSRP1_HUMAN; Structure specific recognition protein 1; Structure-specific recognition protein 1; T160; anti-SSRP1 antibody

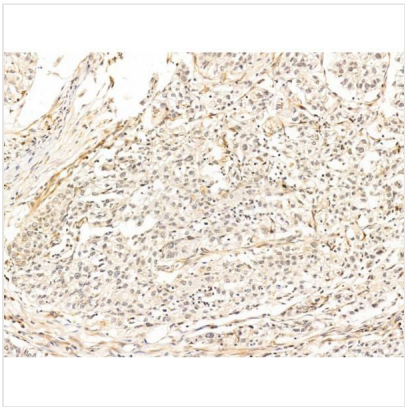
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(86%), Rabbit(100%), Chicken(100%), Xenopus(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	SSRP1 Antibody detects endogenous levels of total SSRP1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	709
Applicable Applications for anti-SSRP1 antibody	ELISA
Immunogen	A synthesized peptide derived from human SSRP1, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IF (Immunofluorescence)

AAA329129 staining A549 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329129) and mouse anti-beta tubulin Ab(T0023) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



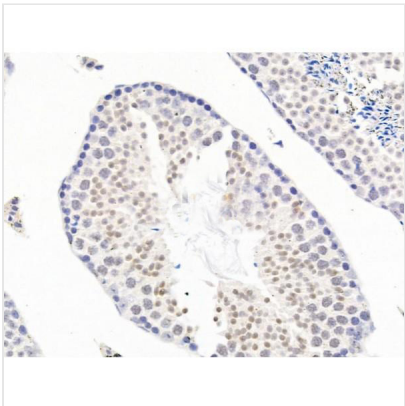
IHC (Immunohistochemistry)

AAA329129 at 1/100 staining Human pancreatic cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



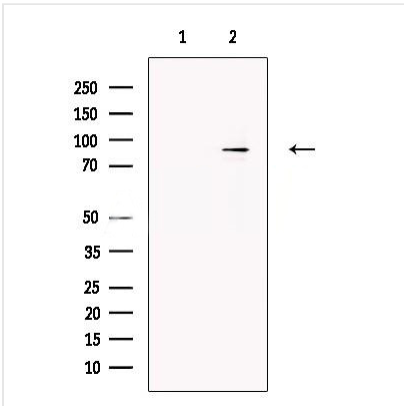
IHC (Immunohistochemistry)

AAA329129 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA329129 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HEK293, using SSRP1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SSRP1 antibody	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. 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. Subcellular Location: Nucleus. Nucleus>Nucleolus. Chromosome. Note: Colocalizes with RNA polymerase II on chromatin. Recruited to actively transcribed loci. Subunit Structure: Interacts with MYOG (via C-terminal region) (By similarity). Component of the FACT complex, a stable heterodimer of SSRP1 and SUPT16H (PubMed:10421373). Also component of a CK2-SPT16-SSRP1 complex which forms following UV irradiation, composed of SSRP1, SUPT16H, CSNK2A1, CSNK2A2 and CSNK2B (PubMed:11239457, PubMed:12393879). Binds to histone H3-H4 tetramers, but not to intact nucleosomes. Identified in a centromere complex containing histones H2A, H2B and H4, and at least CENPA, CENPB, CENPC, CENPT, CENPN, HJURP, SUPT16H, SSRP1 and RSF1 (PubMed:27499292). Interacts with isoform gamma of TP63 (PubMed:12374749). Interacts with FYTDD1/UIF (PubMed:19836239). Interacts with SRF (By similarity). Interacts with NEK9 (PubMed:14660563).(Microbial infection) Interacts with Herpes simplex virus 1 (HHV-1) protein ICP22; this interaction relocalizes the FACT complex to viral genomes in infected cells. Similarity: The HMG box DNA-binding domain mediates DNA-binding. It has both affinity and specificity for DNA damaged globally with cisplatin.Belongs to the SSRP1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	730840
NCBI GeneID	6749
UniProt Accession #	Q08945
Molecular Weight	Observed Molecular Weight: (Observed)81kD. Predicted Molecular Weight: (Calculated)81kDa.
NCBI Official Full Name	FACT complex subunit SSRP1
NCBI Official Synonym Full Names	structure specific recognition protein 1
NCBI Official Symbol	SSRP1
NCBI Official Synonym Symbols	FACT; T160; FACT80
NCBI Protein Information	FACT complex subunit SSRP1
UniProt Protein Name	FACT complex subunit SSRP1
UniProt Gene Name	SSRP1
UniProt Synonym Gene Names	FACT80; FACT 80 kDa subunit; FACTp80; hSSRP1
UniProt Entry Name	SSRP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

