

Rabbit SSRP1 Polyclonal Antibody | anti-SSRP1 antibody

Anti-SSRP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19778	Rabbit	Human, Monkey, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

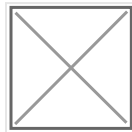
PRODUCT SYNONYMS

SSRP1; Polyclonal Antibody; Anti-SSRP1 Antibody Picoband; Homeobox protein SIX3; Sine oculis homeobox homolog 3; SIX3; anti-SSRP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly expressed in placenta, lung, kidney, testis and ovary. Weakly Expressed in spleen and thymus. Not Expressed in peripheral blood lymphocytes. Detected in hippocampus.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-SSRP1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human SSRP1 recombinant protein (Position: A2-R381).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.

Protein Function	Transcriptional regulator which can act as both a transcriptional repressor and activator by binding a ATTA homeodomain core recognition sequence on these target genes. During forebrain development represses WNT1 expression allowing zona limitans intrathalamica formation and thereby ensuring proper antero-posterior patterning of the diencephalon and formation of the rostral diencephalon. Acts as a upstream activator of SHH expression in the rostral diencephalon ventral midline and that in turn SHH maintains its expression. In addition, Six3 activity is required for the formation of the telencephalon. During postnatal stages of brain development is necessary for ependymal cell maturation by promoting the maturation of radial glia into ependymal cells through regulation of neuroblast proliferation and migration. Acts on the proliferation and differentiation of neural progenitor cells through activating transcription of CCND1 AND CCND2. During early lens formation plays a role in lens induction and specification by activating ly PAX6 in the presumptive lens ectoderm. In turn PAX6 activates SIX3 resulting in activation of PDGFRA and CCND1 promoting cell proliferation. Also is required for the neuroretina development by ly suppressing WNT8B expression in the anterior neural plate territory. Its action during retina development and lens morphogenesis is AES and TLE4-dependent manner. Furthermore, during eye development regulates several genes expression. Before and during early lens development represses the CRYGF promoter by binding a SIX repressor element. ly activates RHO transcription, or cooperates with CRX or NRL. Six3 functions also in the formation of the proximodistal axis of the optic cup, and promotes the formation of optic vesicles-like structures. During pituitary development, acts in parallel or alternatively with HESX1 to control cell proliferation through Wnt/beta-catenin pathway (By similarity). Plays a role in eye development by suppressing WNT1 expression and in dorsal- ventral patterning by repressing BMP signaling pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

IF (Immunofluorescence)

ADDITIONAL INFORMATION

Related Product Information for anti-SSRP1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-SSRP1 antibody	Primary Antibodies; Developmental Families; Domain Families; Epigenetics and Nuclear Signaling; Neurogenesis ; Neurology Process; Neuroscience; Transcription
References	1. Belotserkovskaya, R., Oh, S., Bondarenko, V. A., Orphanides, G., Studitsky, V. M., Reinberg, D. FACT facilitates transcription-dependent nucleosome alteration. Science 301: 1090-1093, 2003. 2. Bruhn, S. L., Pil, P. M., Essigmann, J. M., Housman, D. E., Lippard, S. J. Isolation and characterization of human cDNA clones encoding a high mobility group box protein that recognizes structural distortions to DNA caused by binding of the anticancer agent cisplatin. Proc. Nat. Acad. Sci. 89: 2307-2311, 1992. 3. Keller, D. M., Zeng, X., Wang, Y., Zhang, Q. H., Kapoor, M., Shu, H., Goodman, R., Lozano, G., Zhao, Y., Lu, H. A DNA damage-induced p53 serine 392 kinase complex contains CK2, hSpt16, and SSRP1. Molec. Cell 7: 283-292, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	730840
NCBI GeneID	6749
UniProt Accession #	Q08945; Q5BJG8
Molecular Weight	709
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; hSSRP1; FACTp80; cisplatin-DNA SSRP; FACT 80 kDa subunit; high mobility group box; structure-specific recognition protein 1; facilitates chromatin remodeling 80 kDa subunit; recombination signal sequence recognition protein 1;
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.