

SS18-SSX Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 65, 75	Source/Isotype: Rabbit	UniProt ID: #A4PIV8
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	SS18-SSX Antibody recognizes endogenous levels of total SS18-SSX fusion protein. This antibody does not cross-react with wild-type SS18 or SSX proteins.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the fusion site of human SS18-SSX protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	SS18 is a protein that has been shown to be a part of the SWI/SNF complex (1, 2). The SS18-SSX fusion proteins are a result of in-frame fusions that fuse the <i>SS18</i> gene on chromosome 18 with X chromosome genes <i>SSX1</i> , <i>SSX2</i> , and to a lesser extent <i>SSX4</i> (3). Human synovial sarcoma (SS) accounts for 8-10% of all soft tissue malignancies and 95% of these malignancies express the recurrent translocation of the <i>SS18</i> gene on chromosome 18 (3). The N-terminal SNH domain (SYT N-terminal homology domain) of the SS18 protein interacts with SWI/SNF chromatin remodeling complexes via the N terminal region of BRM and BRG1 subunits (4). Studies of the SS18-SSX fusion in SS suggest that endogenous SS18 competes with the mutant SS18-SSX fusion for occupancy in the SWI/SNF complexes resulting in the displacement of SNF5 (BAF47) subunit. Displacement of the SNF5 subunit results in altered function of the SWI/SNF complex that leads to deregulated expression of genes such as <i>Sox2</i> in SS (3).	
Background References	<ol style="list-style-type: none"> Nagai, M. et al. (2001) <i>Proc Natl Acad Sci U S A</i> 98, 3843-8. Thaete, C. et al. (1999) <i>Hum Mol Genet</i> 8, 585-91. Kadoch, C. and Crabtree, G.R. (2013) <i>Cell</i> 153, 71-85. Perani, M. et al. (2003) <i>Oncogene</i> 22, 8156-67. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: Human
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