

Store at -20°C

SS18-SSX (E9X9V) XP® Rabbit mAb

#72364



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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications: WB, IP, IHC-Bond, IHC-P, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 65, 75	Source/Isotype: Rabbit IgG	UniProt ID: A4PIV8
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Product Usage Information

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 × 10⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits.

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
IHC-Leica® Bond™	1:200 - 1:800
Immunohistochemistry (Paraffin)	1:400 - 1:1600
Chromatin IP	1:50

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 Sox2 in SS (3).

1. Nagai, M. et al. (2001) *Proc Natl Acad Sci U S A* 98, 3843-8.
2. Thaete, C. et al. (1999) *Hum Mol Genet* 8, 585-91.
3. Kadoch, C. and Crabtree, G.R. (2013) *Cell* 153, 71-85.
4. Perani, M. et al. (2003) *Oncogene* 22, 8156-67.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity / Sensitivity

SS18-SSX (E9X9V) XP® Rabbit mAb recognizes endogenous levels of total SS18-SSX fusion protein. This antibody does not cross-react with wild-type SS18 or SSX proteins.

Species Reactivity:
Human

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the fusion site of human SS18-SSX protein.

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 SS18 gene on chromosome 18 with X chromosome genes SSM1, SSM2, and to a lesser extent SSM4 (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 SS18 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

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

APPLICATIONS KEY WB: Western Blot IP: Immunoprecipitation IHC: Immunohistochemistry ChIP: Chromatin Immunoprecipitation IF: Immunofluorescence F: Flow Cytometry E-P: ELISA-Peptide

CROSS-REACTIVITY KEY H: human M: mouse R: rat Hm: hamster Mk: monkey Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse All: all species expected

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