

Store at
-20C
#23855**SSX (E5A2C) Rabbit mAb (Carboxy-terminal Antigen)**

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

Applications: W, IP, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q16384	Entrez-Gene Id: 6756
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:100
1:100 - 1:400
1:50 - 1:200

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

SSX (E5A2C) Rabbit mAb (Carboxy-terminal Antigen) recognizes endogenous levels of total SSX1-4 proteins. This antibody also detects the SS18-SSX fusion protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln173 of human SSX1 protein.

Background

The SS18-SSX fusion proteins are a result of in-frame fusions that fuse the SS18 gene on chromosome 18 with X chromosome genes *SSX1*, *SSX2*, and to a lesser extent *SSX4* (1). 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 (1). 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 (2). 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 the 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 (1).

While the SSX family of proteins is well characterized in SS, little is known outside of this context. The conserved N-terminus of the SSX family contains a KRAB domain which seems to function as a transcriptional repressor (3).

Background References

1. Kadoch, C. and Crabtree, G.R. (2013) *Cell* 153, 71-85.
2. Perani, M. et al. (2003) *Oncogene* 22, 8156-67.
3. Lim, F.L. et al. (1998) *Oncogene* 17, 2013-8.

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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