

Anti-SYT Antibody

Catalog # AP51536

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q15532
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45929

Additional Information

Gene ID	6760
Other Names	SSXT; SYT; Protein SSXT; Protein SYT; Synovial sarcoma translocated to X chromosome protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human SYT. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

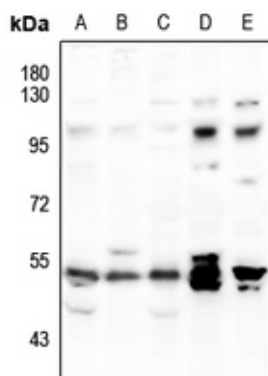
Protein Information

Name	SS18
Synonyms	SSXT, SYT
Function	Appears to function synergistically with RBM14 as a transcriptional coactivator. Isoform 1 and isoform 2 function in nuclear receptor coactivation. Isoform 1 and isoform 2 function in general transcriptional coactivation. Component of SWI/SNF chromatin remodeling subcomplex GBAF that carries out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner (PubMed: 29374058).
Cellular Location	Nucleus.
Tissue Location	Fairly ubiquitously expressed. Expressed in synovial sarcomas and in other human cell lines. The fusion genes SSXT- SSX1 and SSXT-SSX2 are expressed only in synovial sarcomas

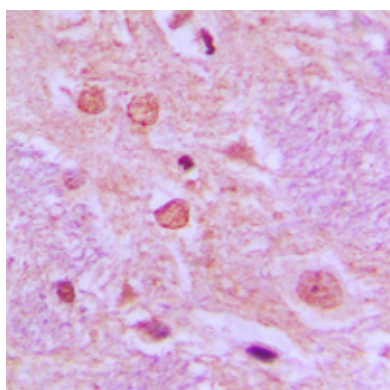
References

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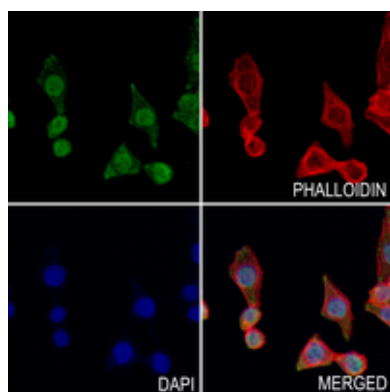
Images



Western blot analysis of SYT expression in PC12 (A), NIH3T3 (B), Hela (C), MCF7 (D), HEK293T (E) whole cell lysates. (Predicted band size: 45 kD; Observed band size: 50; 60 kD)



Immunohistochemical analysis of SYT staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of SYT staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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