

SAP 18 (H-130): sc-25377

BACKGROUND

In the intact cell, DNA closely associates with histones and other nuclear proteins to form chromatin. The remodeling of chromatin is believed to be a critical component of transcriptional regulation and a major source of this remodeling is brought about by the acetylation of nucleosomal histones. Acetylation of lysine residues in the amino terminal tail domain of histone results in an allosteric change in the nucleosomal conformation and an increased accessibility to transcription factors by DNA. Conversely, the deacetylation of histones is associated with transcriptional silencing. Chromatin structure alteration may be brought about by the action of ATP-dependent multiprotein complexes. One such complex is the mSin3 corepressor complex, which contains mSin3, the histone deacetylases HDAC1 and HDAC2, the associated proteins SAP 30 and SAP 18, and the putative helicase Mi2.

CHROMOSOMAL LOCATION

Genetic locus: SAP18 (human) mapping to 13q12.11; Sap18 (mouse) mapping to 14 C3, Gm10094 (mouse) mapping to 8 D1.

SOURCE

SAP 18 (H-130) is a rabbit polyclonal antibody raised against amino acids 1-130 of SAP 18 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-25377 X, 200 µg/0.1 ml.

APPLICATIONS

SAP 18 (H-130) is recommended for detection of SAP 18 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); also recommended for detection of ENSMUSG0000061104 of mouse origin.

SAP 18 (H-130) is also recommended for detection of SAP 18 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SAP 18 siRNA (h): sc-36454, SAP 18 shRNA Plasmid (h): sc-36454-SH and SAP 18 shRNA (h) Lentiviral Particles: sc-36454-V.

SAP 18 (H-130) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

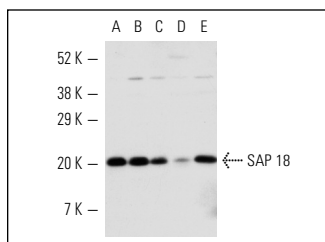
Molecular Weight of SAP 18: 18 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, HeLa nuclear extract: sc-2120 or IMR-32 nuclear extract: sc-2148.

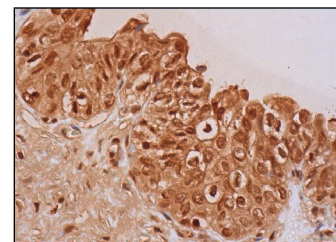
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



SAP 18 (H-130): sc-25377. Western blot analysis of SAP 18 expression in K-562 (A), Jurkat (B), HeLa (C), SK-N-MC (D) and IMR-32 (E) nuclear extracts.



SAP 18 (H-130): sc-25377. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing nuclear and cytoplasmic staining of urothelial cells.

SELECT PRODUCT CITATIONS

1. Raetz, E.A., et al. 2006. Gene expression profiling reveals intrinsic differences between T cell acute lymphoblastic leukemia and T cell lymphoblastic lymphoma. *Pediatr. Blood Cancer* 47: 130-140.
2. Chatterji, B., et al. 2009. A 2-DE MALDI-TOF study to identify disease regulated serum proteins in lung cancer of c-Myc transgenic mice. *Proteomics* 9: 1044-1056.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

MONOS
Satisfaction
Guaranteed

Try **SAP 18 (C-3): sc-365377** or **SAP 18 (E-4): sc-365376**, our highly recommended monoclonal alternatives to SAP 18 (H-130).