



Sap 30 (yC-21): sc-8475

BACKGROUND

Hat1, Hat2 and Hif1 proteins are subunits of the type B histone acetyltransferase (HAT-B) from *Saccharomyces cerevisiae* that elicits histone acetylation activity. Chromatin remodeling is a critical component of transcription regulation that utilizes acetylation of nucleosomal histones. Acetylation results in an allosteric change in the nucleosomal conformation and an increased accessibility of DNA to transcription factors. Conversely, the deacetylation of histones is associated with transcriptional silencing. Gcn5 (also designated Ada4), Hat1 and Hat2 have been identified as yeast histone acetylases. Rps3 (also designated SD12), Hda1 and Sap30 have been identified as histone deacetylases. Sin3 (also designated Rpd1, Gam2, Ume4 or Sdi1) is involved in the transcriptional repression of many genes.

REFERENCES

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- Horiuchi, J., Silverman, N., Marcus, G.A., and Guarante, L. 1995. ADA3, a putative transcriptional adaptor, consists of two separable domains and interacts with ADA2 and GCN5 in a trimeric complex. *Mol. Cell. Biol.* 15: 1203-1209.
- Carmen, A.C., Rundlett, S.E., and Grunstein, M. 1996. HDA1 and HDA3 are components of a yeast histone deacetylase (HDA) complex. *J. Biol. Chem.* 271: 15837-15844.
- Candau, R., Zhou, J.X., Allis, C.D., and Berger, S.L. 1997. Histone acetyltransferase activity and interaction with ADA2 are critical for GCN5 function *in vivo*. *EMBO J.* 16: 555-565.
- Kasten, M.M., Dorland, S., and Stillman, D.J. 1997. A large protein complex containing the yeast Sin3p and Rpd3p transcriptional regulators. *Mol. Cell. Biol.* 17: 4852-4858.
- Kadosh, D. and Struhl, K. 1997. Repression by Ume6 involves recruitment of a complex containing Sin3 corepressor and Rpd3 histone deacetylase to target promoters. *Cell* 89: 365-371.
- Pennisi, E. 1997. Opening the way to gene activity. *Science* 275: 155-156.

SOURCE

Sap 30 (yC-21) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Sap 30 of *Saccharomyces cerevisiae* origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-8475 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Sap 30 (yC-21) is recommended for detection of Sap 30 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Sap 30: 30 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.