

Broad Institute - Encode3 Secondary Antibody Validation

Santa Cruz # sc6298X Lot H0509

Target: HDAC1

Approved name: histone deacetylase 1

Function: Deacetylates lysines on the N-terminal part of the core histones, H2A, H2B, H3 and K4.

Member of complex: HDAC1 is a member of multiple complexes that include histone deacetylase HDAC2, and additional factors. One such complex is the Sin3a complex.

Reference:

Mol Cell. 1998 1:1021-31. SAP30, a novel protein conserved between human and yeast, is a component of a histone deacetylase complex. Zhang Y, Sun ZW, Iratni R, Erdjument-Bromage H, Tempst P, Hampsey M, Reinberg D. [PMID: 9651585](https://pubmed.ncbi.nlm.nih.gov/9651585/)

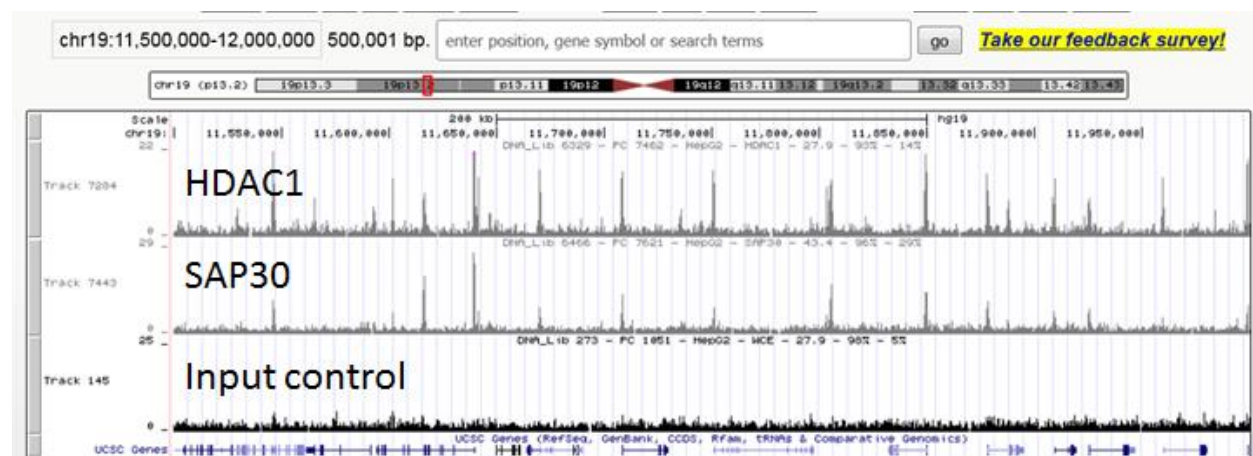
Other complex members: HDAC2, CHD4, SAP30, RbBP4, RbBP7

Antibody being validated:

1. Santa Cruz # sc6298X Lot H0509 (goat polyclonal)
2. Broad Alias: PchAb 134-V
3. Immunogen: C-terminal peptide of human origin.
4. <https://www.encodeproject.org/antibodies/ENCAB649LYF/>

This validation relies on the use of antibodies to different members of a known complex, in HepG2 cells, and the demonstration that highly similar patterns of enrichment are obtained with each antibody. The second track shown used an antibody to SAP30 (PchAb 164-V), another member of the Sin3a complex.

Overall correlation score: 0.9175



Antibody in comparison track:

1. Active Motif - part 39731 - Lot 4710001 (rabbit polyclonal)
2. Broad alias: PchAb 164-V
3. Immunogen: recombinant full length human SAP30 protein
4. <https://www.encodeproject.org/antibodies/ENCAB000AKO/>