

## Anti-HDAC3(Histone deacetylase 3) Polyclonal Antibody

Cat. #: 60B770

### Description:

HDAC3 (Histone deacetylase 3) is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. HDAC3 probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1. It increases YY1 repression activity. HDAC3 is required to repress transcription of the POU1F1 transcription factor.

HDAC3 interacts with HDAC7 and forms a heterologous complex at least with YY1. Interacts with DAXX, HDAC10 and DACH1. It is found in a complex with NCOR1 and NCOR2. Component of the N-Cor repressor complex, at least composed of NCOR1, NCOR2, HDAC3, TBL1X, TBL1R, CORO2A and GPS2.

### Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human HDAC3(Histone deacetylase 3)

### References

- Emiliani, S., et al, Proc. Natl. Acad. Sci. U.S.A. 95 (6), 2795-2800 (1998)
- Li, H., et al, Mol. Cell. Biol. 20 (5), 1784-1796 (2000)
- Fischle, W., et al, J. Biol. Chem. 276 (38), 35826-35835 (2001)
- Kirsh, O., et al, EMBO J. 21 (11), 2682-2691 (2002)
- Huynh, K.D., et al, Genes Dev. 14 (14), 1810-1823 (2000)
- Zhang, J., et al, Mol. Cell 9 (3), 611-623 (2002)
- Yoon, H.G., et al, EMBO J. 22 (6), 1336-1346 (2003)

**Species:** human, mouse, rat  
**Storage and Stability:** at -20°C

### Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

### Preparation:

Purified by antigen-specific affinity chromatography.

### Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)