SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

Catalogue #	Aliquot Size
H91-63R-25	25 µg
H91-63R-100	100 µg

Anti-HDAC9

Rabbit Polyclonal Antibody

Catalog # H91-63R
Lot # D351-8

Cited Applications

- Western blot (1:1000)

Ideal working dilutions for each application should be empirically determined by the investigator.

Specificity

Recognizes the HDAC9 protein

Cross Reactivity

- Western blot of HDAC9 from human cells

HDAC9 from other species may also be detectable

Host

Rabbit

Immunogen

Protein Code Q9UKV0

Formulation

TBS, 50% glycerol

Stability

Store at 4°C (add 0.1% NaN_3) for several months, and at -20°C for longer periods. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles.

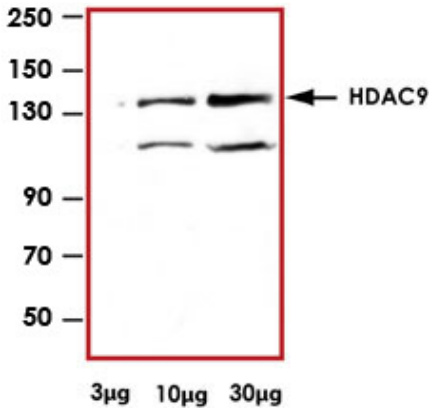
Scientific Background

Acetylation of the histone tail causes chromatin to adopt an "open" conformation, allowing trans factors increased accessibility to DNA. The identification of histone acetyltransferases (HATs) and their large multiprotein complexes has yielded important insights into how these enzymes regulate transcription (1,2). HAT complexes interact with sequence-specific activator proteins to target specific genes. In addition to histones, HATs can acetylate non-histone proteins, suggesting multiple roles for these enzymes (3). In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically leads to repression of gene activity (4). Mammalian histone deacetylases can be divided into three classes on the basis of their similarity to various yeast deacetylases (5). Class I (HDACs 1, 2, 3 and 8) proteins are related to the yeast Rpd3-like proteins, those in class II (HDACs 4, 5, 6, 7, 9 and 10) are related to yeast Hda1-like proteins and class III proteins are related to the yeast protein Sir2. Inhibitors of HDAC activity are now being explored as potential therapeutic cancer agents (6,7).

References

1. Marmorstein, R. et al. (2001) *Cell. Mol. Life Sci.* 58, 693–703.
2. Gregory, P.D. et al. (2001) *Exp. Cell Res.* 265, 195–202.
3. Liu, Y. et al. (2000) *Mol. Cell. Biol.* 20, 5540–5543.
4. Cress, S.D. and Seto, E. (2000) *J. Cell. Physiol.* 184, 1–16.
5. Gray, S.G. and Ekstrom, T.J. (2001) *Exp. Cell Res.* 262, 75–83.
6. Thiagalingam, S. et al. (2003) *Ann. N. Y. Acad. Sci.* 983, 84–100.
7. Viguishin, D.M. and Coombes, R.C. (2004) *Curr. Cancer Drug Targets* 4, 205–218.

Sample Data



Representative western blot with Anti-HDAC9 (1:1000) using 3 µg, 10 µg, and 30 µg of HEK 293T cell lysate.

Anti-HDAC9

Rabbit Polyclonal Antibody

Catalog Number	H91-63R
Specific Lot Number	D351-8
Purification	Affinity Chromatography
Concentration	1.0 µg/µL
Stability	1yr at –20°C from date of shipment
Storage & Shipping	Store product at –20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs.

To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
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