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Histone Deacetylase 1 (HDAC1) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.						
Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source: Rabbit	UniProt ID: #Q13547	Entrez-Gene Id: 3065
Product Usage Information	Ар	plication			Dilution	
	We	estern Blotting		1:1000		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sens		Histone Deacetylase 1 (HDAC1) Antibody detects endogenous levels of total HDAC1 protein. The antibody does not cross-react with other HDAC proteins.				
Source / Purificat	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal sequence of human HDAC1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	acce theii tran: gen	Acetylation of the histone tail causes chromatin to adopt an "open" conformation, allowing increased accessibility of transcription factors 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 nonhistone proteins, suggesting multiple roles for these enzymes (3). In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically				

Background References

- 1. Marmorstein, R. (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, 5540-53.
- 4. Cress, W.D. and Seto, E. (2000) J Cell Physiol 184, 1-16.
- 5. Gray, S.G. and Ekström, T.J. (2001) Exp Cell Res 262, 75-83.
- 6. Thiagalingam, S. et al. (2003) Ann. N.Y. Acad. Sci. 983, 84-100.
- 7. Vigushin, D.M. and Coombes, R.C. (2004) Curr Cancer Drug Targets 4, 205-18.

activity are now being explored as potential therapeutic cancer agents (6,7).

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

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 proteins (HDACs 1, 2, 3, and 8) 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

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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