HDAC5 (D1J7V) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UQL6	Entrez-Gene Id: 10014	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting		1:1000			
	Im	munoprecipitation		1:50			
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						erol and less than	
Specificity / Sensitivity		HDAC5 (D1J7V) Rabbit mAb recognizes endogenous levels of total HDAC5 protein. This antibody does not cross-react with other HDAC proteins, including HDAC4 and HDAC7.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein surrounding Leu445 of human HDAC5 protein.					
Background		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 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					

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).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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yeast Hda1-like proteins, and class III proteins are related to the yeast protein Sir2. Inhibitors of HDAC

information.

Limited Uses

HDAC5 (D1|7V) Rabbit mAb (#20458) Datasheet Without Images Cell Signaling Technology

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