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Histone Deacetylase 7 (HDAC7) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	UniProt ID: #Q8WUI4	Entrez-Gene Id: 51564		
Product Usage Information	9			Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				ycerol. Store at –		
Specificity/Sensitivity		Histone Deacetylase 7 (HDAC7) Antibody detects endogenous levels of total HDAC7 protein. The antibody does not cross-react with other HDAC proteins.						
Source / Purifi	cation	ion Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human HDAC7. Antibodies are purified by protein A and peptide affinity chromatography.						
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 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).						
Background Re	eferences	 Marmorstein, R. (2001) <i>Cell Mol Life Sci</i> 58, 693-703. Gregory, P.D. et al. (2001) <i>Exp Cell Res</i> 265, 195-202. Liu, Y. et al. (2000) <i>Mol Cell Biol</i> 20, 5540-53. Cress, W.D. and Seto, E. (2000) <i>J Cell Physiol</i> 184, 1-16. Gray, S.G. and Ekström, T.J. (2001) <i>Exp Cell Res</i> 262, 75-83. Thiagalingam, S. et al. (2003) <i>Ann. N.Y. Acad. Sci.</i> 983, 84-100. Vigushin, D.M. and Coombes, R.C. (2004) <i>Curr Cancer Drug Targets</i> 4, 205-18. 						
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	-	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.						
Applications K	ey	W: Western Blotting						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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