

:10831

HDAC7 (E7O8V) Rabbit mAb



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Applications: W, IP, IF-IC, C&R	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 124	Source/Isotype: Rabbit IgG	UniProt ID: #Q8WUI4	Entrez-Gene Id 51564
Product Usage		The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.				
Information		Application Western Blotting Immunoprecipitation Immunofluorescence		nistry)		Dilution 1:1000 1:100 1:100
Storage		CUT&RUN Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycer 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				1:50 rol and less than
Specificity/Sensitivity		HDAC7 (E7O8V) Rabbit mAb recognizes endogenous levels of total HDAC7 protein. This antibody does not cross-react with other HDAC proteins, including HDAC4 and HDAC5.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly60 of human HDAC7 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 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 References		 Marmorstein, R. (2001) Cell Mol Life Sci 58, 693-703. Gregory, P.D. et al. (2001) Exp Cell Res 265, 195-202. Liu, Y. et al. (2000) Mol Cell Biol 20, 5540-53. Cress, W.D. and Seto, E. (2000) J Cell Physiol 184, 1-16. Gray, S.G. and Ekström, T.J. (2001) Exp Cell Res 262, 75-83. Thiagalingam, S. et al. (2003) Ann. N.Y. Acad. Sci. 983, 84-100. Vigushin, D.M. and Coombes, R.C. (2004) Curr Cancer Drug Targets 4, 205-18. 				
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, 1. TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochem CUT&RUN				cytochemistry) C&R:

Cross-Reactivity Key

H: Human Mk: Monkey

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