HDAC1 (D5C6U) XP® Rabbit mAb Image: Cell Signaling term Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: W, IP, IHC-P, IF-IC,	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q13547	Entrez-Gene Id: 3065
ChIP, ChIP-seq, C&R, C&T		5		5		
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.				
		The CUT&Tag dilution	was determined us	sing CUT&Tag Assay Kit #	ŧ77552.	
		Application			ſ	Dilution
		Western Blotting				:1000
		Immunoprecipitation				:100
		Immunohistochemis Immunofluorescence	-	history)		:50 - 1:200 :50 - 1:200
		Chromatin IP	(Infinitiocytochen	listry)		:50
		Chromatin IP-seq				:50
		CUT&RUN				:50
		CUT&Tag			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.				
		For a carrier free (BSA	A and azide free) ver	sion of this product see	product #51225.	
Specificity/Sensitivity		HDAC1 (D5C6U) $XP^{ ext{B}}$ Rabbit mAb recognizes endogenous levels of total HDAC1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala440 of human HDAC1 protein.				
Background		accessibility of transc their large multiprote transcription (1,2). HA genes. In addition to these enzymes (3). In typically leads to repr three classes on the 2, 3, and 8) are relate related to yeast Hda1	ription factors to DI in complexes has y AT complexes intera histones, HATs can contrast, histone d ession of gene activ basis of their similar d to the yeast Rpd3 -like proteins, and c	omatin to adopt an "ope NA. The identification of ielded important insight ct with sequence-specific acetylate nonhistone pro eacetylation promotes a vity (4). Mammalian histo ity to various yeast deac like proteins, those in cl lass III proteins are relat as potential therapeutic	histone acetyltrans s into how these er c activator proteins oteins, suggesting "closed" chromatir one deacetylases ca etylases (5). Class I ass II (HDACs 4, 5, ted to the yeast pro	sferases (HATs) and nzymes regulate to target specific multiple roles for n conformation and on be divided into proteins (HDACs 1, 6, 7, 9, and 10) are otein Sir2. Inhibitors
Background Re	ferences		(2001) Exp Cell Res Mol Cell Biol 20, 554 co, E. (2000) J Cell Ph röm, T.J. (2001) Exp : al. (2003) Ann. N.Y.	265, 195-202. 0-53. <i>iysiol</i> 184, 1-16.	gets 4, 205-18.	
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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.				

Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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