e at -20C	HDAC1 (10E2) Mouse mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
90		Support:	877-678-TECH (8324)		
#5356		Web:	info@cellsignal.com cellsignal.com		
1#		3 Trask Lane Danvers	Massachusetts 01923 USA		

For Research Use Only	Not for Use	in Diagnostic I	Procedures
FOI INESCAICH USE OIN	. NOLIDI 030	in Diagnostic i	Toccuures.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Mouse IgG1	UniProt ID: #Q13547	Entrez-Gene Id: 3065		
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		HDAC1 (10E2) Mouse mAb detects endogenous levels of total HDAC1 protein. The antibody does not cross-react with other HDAC proteins.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human HDAC1 protein.						
Background Background References		 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). 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 Reactivity	y Spe	ecies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer				olots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry 20 at 4°C with gentle shaking, overnight.				
Applications Key	WE	B: Western Blotting IF	P: Immunoprecipi	itation				
Cross-Reactivity k	X: >		B: bovine Dg: d	Mk: monkey Vir: virus I og Pg: pig Sc: S. cerevi es expected				
Trademarks and Patents	All o	0 0 0		of Cell Signaling Techno neir respective owners.	0	demarks for more		
Limited Uses		owing terms apply to	essly agreed in a writing signed by a legally authorized representative of CST, the Products provided by CST, its affiliates or its distributors. Any Customer's terms and ition to, or different from, those contained herein, unless separately accepted in					

HDAC1 (10E2) Mouse mAb (#5356) Datasheet Without Images Cell Signaling Technology

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.