9581 Store at -20C **Cell Signaling** HDAC1 (10E2) Mouse mAb (HRP Conjugate) TECHNOLOGY® 877-616-CELL (2355) Orders: orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com ĽÔ cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. MW (kDa): UniProt ID: Applications: **Reactivity:** Sensitivity: Source/Isotype: Entrez-Gene Id: WB H M R Mk Endogenous 62 Mouse IgG1 #Q13547

WB	H M R Mk	Endogenous	62	Mouse IgG1	#Q13547	3065
Product Usage Information		plication stern Blotting			Dilution 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.				mg/ml BSA, and
Specificity / Sensit		HDAC1 (10E2) Mouse mAb (HRP Conjugate) 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.				esponding to the
Product Descriptio	pero	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated HDAC1 (10E2) Mouse mAb #5356.				
MW (kDa)					62	
Background	acce their trans gene enzy lead on th are i yeas	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 Refer	2. G 3. Li 4. Ci 5. G 6. Tł	ray, S.G. and Ekstr niagalingam, S. et a	2001) Exp Cell Re fol Cell Biol 20, 59 o, E. (2000) J Cel öm, T.J. (2001) E al. (2003) Ann. N.	es 265, 195-202.		
Species Reactivity	Spec	ies reactivity is dete	ermined by testing	ı in at least one approve	d application (e.g., w	estern blot).
Western Blot Buffe				membrane with diluted h gentle shaking, overn		% w/v nonfat dry
Applications Key	WB:	Western Blotting				
Cross-Reactivity K	X: Xe		B: bovine Dg: de	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevis es expected		-

HDAC1 (10E2) Mouse mAb (HRP Conjugate) (#59581) Datasheet Without Images Cell Signaling Technology

1/24, 8:30 AM	HDACI (10E2) Mouse mAb (HRP Conjugate) (#59581) Datasheet Without Images Cell Signaling Techno		
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