e at -20C	HDAC4 (4A3) Mouse mAb		ell Signaling снмогоду [®]
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For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Sour

For Research Use Only. Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Mouse IgG2a	UniProt ID: #P56524	Entrez-Gene Id: 9759
Product Usage Information	W	pplication Vestern Blotting nmunoprecipitation			Dilution 1:1000 1:200	
Storage		••		7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
Specificity / Sensit		DAC4 (4A3) Mouse m/ act with HDAC5.	Ab detects endo	genous levels of total HI	DAC4 protein. The ant	ibody may cross-
Source / Purificatio	an			nunizing animals with a n n. The epitope correspo		
Background	ac the tra ge en lea on are ye ac ac His by by by by the tres til stil	accessibility of transcripti eir large multiprotein c anscription (1,2). HAT of enes. In addition to hist adds to repression of ge the basis of their simile e related to the yeast I hast Hda1-like proteins tivity are now being ex- stone deacetylases (H yocyte enhancer factor e shuttling between the e removing HDACs from hich bind to specific philo nding modules are hig sponse to specific cell DAC7 Ser155 residues	tion factors to DI omplexes has yi complexes intera- tones, HATs can c, histone deacet ene activity (4). N ilarity to various Rpd3-like proteir a, and class III pr kplored as poten IDACs) interact v r 2 (MEF2), to ne enucleus and cy m their target ge tosphoserine res hly conserved be stimuli. For exam- s are all phospho induced angioge	omatin to adopt an "ope NA. The identification of elded important insights act with sequence-specia acetylate nonhistone pry ylation promotes a "clos Mammalian histone dead yeast deacetylases (5). hs, those in class II (HD/ oteins are related to the tial therapeutic cancer a with an increasing numb egatively regulate generation toplasm, where export to nes (8,9). The cytoplasm idues on the HDAC pro- tetween HDAC proteins, mple, the highly conserv- orylated by CAMK and F enesis in endothelial cell iber (10-14).	histone acetyltransfera into how these enzym fic activator proteins to oteins, suggesting mu ed" chromatin conform cetylases can be divide Class I proteins (HDAG ACS 4, 5, 6, 7, 9, and 1 yeast protein Sir2. Inh gents (6,7). the of transcription factor expression. HDACs ar to the cytoplasm facilitated teins (8,9). These phose allowing for their collear red HDAC4 Ser246, Hi PKD kinases in response	ases (HATs) and hes regulate target specific ltiple roles for these hation and typically ed into three classes Cs 1, 2, 3, and 8) .0) are related to hibitors of HDAC ors, including e regulated in part tes gene activation by 14-3-3 proteins, sphoserine 14-3-3 ctive regulation in DAC5 Ser259 and se to multiple cell
Background Refere	2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	Thiagalingam, S. et al Vigushin, D.M. and Co Grozinger, C.M. and S Wang, A.H. et al. (200 Ha, C.H. et al. (2008)	001) Exp Cell Re ol Cell Biol 20, 55 , E. (2000) J Cel m, T.J. (2001) E . (2003) Ann. N. combes, R.C. (2 Schreiber, S.L. (2 O) Mol Cell Biol J Biol Chem 283 Proc Natl Acad (2006) Mol Cell B J Biol Chem 28	es 265, 195-202. 540-53. <i>I Physiol</i> 184, 1-16. <i>xp Cell Res</i> 262, 75-83. <i>Y. Acad. Sci.</i> 983, 84-10 004) <i>Curr Cancer Drug</i> 2000) <i>Proc Natl Acad Sc</i> 20, 6904-12. 3, 14590-9. <i>Sci USA</i> 105, 7738-43. <i>Biol</i> 26, 1569-77. 0, 13762-70.	0. <i>Target</i> s 4, 205-18.	

1/1/24, 7:43 AM Species Reactivity	HDAC4 (4A3) Mouse mAb (#5392) Datasheet Without Images Cell Signaling Technology 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	WB: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
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