## #4395 store at -20C

## Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Biotinylated)



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

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P68431	Entrez-Gene Id: 8350	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity		Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb (Biotinylated) detects endogenous levels of histone H3 only when tri-methylated on Lys27. The antibody does not cross-react with non-methylated, mono- methylated, or di-methylated Lys27. In addition, the antibody does not cross-react with mono- methylated, di-methylated, or tri-methylated histone H3 at Lys4, Lys9, Lys36 or Histone H4 at Lys20.					
Species predicte based on 100% s homology		Xenopus, Zebrafish					
Source / Purifica	ation	Monoclonal antibody amino terminus of his		unizing animals with a s /s27 is tri-methylated.	synthetic peptide co	rresponding to the	
Description		5 5	is expected to exhib	s conjugated to biotin ur bit the same species cros it mAb #9733.			
Background		block of chromatin. On now been shown to be modifications, includir methylation is a major is crucial for the prope of histones H3 (Arg2, family of protein argin (PRMT4) (4). In contras but one of which cont Su(var)3-9, Enhancer o H3 (Lys4, 9, 27, 36, 79) silencing (4). Methylat enzymes containing m (BPTF, ING2), tudor do	iginally thought to e dynamic proteins, ng acetylation, phos determinant for the programming of 17, 26) and H4 (Arg ine methyltransfer st, a more diverse st ain a conserved cat f zeste, and Trithor and H4 (Lys20) and ion of these lysine r methyl-lysine bindim mains (53BP1), and s PADI4, LSD1, JMJD	stone proteins (H2A, H2 function as a static scaft undergoing multiple ty sphorylation, methylatio e formation of active ar the genome during deve by promotes transcriptio ases (PRMTs), including t et of histone lysine meth alytic SET domain origin tax proteins. Lysine meth has been implicated in residues coordinates the g modules such as chror I WD-40 domains (WDR5 1, JMJD2, and JHDM1, ha	fold for DNA packag pes of post-translati n, and ubiquitinatio id inactive regions of elopment (2,3). Argin nal activation and is the co-activators PR hyltransferases has I ally identified in the hylation occurs prim both transcriptiona recruitment of chro modomains (HP1, PI -) (5-8). The discover	ing, histones have onal n (1). Histone of the genome and nine methylation mediated by a MT1 and CARM1 been identified, all <i>Drosophila</i> larily on histones l activation and pmatin modifying RC1), PHD fingers y of histone	
Background Ref	ferences	1. Peterson, C.L. and L 2. Kubicek, S. et al. (20 3. Lin, W. and Dent, S. 4. Lee, D.Y. et al. (2005 5. Daniel, J.A. et al. (2006) 6. Shi, X. et al. (2006) 7. Wysocka, J. et al. (20 8. Wysocka, J. et al. (20 9. Trojer, P. and Reinbe	06) <i>Ernst Schering</i> /. (2006) <i>Curr Opin</i> ) <i>Endocr Rev</i> 26, 14 05) <i>Cell Cycle</i> 4, 919 <i>Jature</i> 442, 96-9. 106) <i>Nature</i> 442, 86- 105) <i>Cell</i> 121, 859-72	Res Found Workshop, 1- Genet Dev 16, 137-42. 7-70. 9-26. 990. 2.	27.		

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, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
Applications Key	W: Western Blotting		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in 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 purpose, 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 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.		