e at -20C	CNOT3 (D4K4N) Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
#40608		Support:	877-678-TECH (8324)	
90		Web:	info@cellsignal.com	
#4		3 Trask Lane   Danvers   Ma	cellsignal.com Issachusetts   01923   USA	

For Research Use Only	y. Not for Use in Diagnostic Procedu	ires
	y, Not for 03c in Diagnostic i roccut	1103.

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 105	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #075175	Entrez-Gene Id: 4849		
Product Usage Information	We	pplication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 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.						
Specificity / Sensi	itivity CN	CNOT3 (D4K4N) Rabbit mAb recognizes endogenous levels of total CNOT3 protein.						
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CNOT3 protein.						
Background Background References		<ul> <li>The evolutionarily conserved CCR4-NOT (CNOT) complex regulates mRNA metabolism in eukaryotic cells (1). This regulation occurs at different levels of mRNA synthesis and degradation, including transcription initiation, elongation, deadenylation, and degradation (1). Multiple components, including CNOT1, CNOT2, CNOT3, CNOT4, CNOT6, CNOT6L, CNOT7, CNOT8, CNOT9, and CNOT10 have been identified in this complex (2). In addition, subunit composition of this complex has been shown to vary among different tissues (3).</li> <li>Research studies indicate that CNOT3 (along with CNOT1 and CNOT2) represses early developmental transcription factor expression, helping to maintain embryonic stem (ES) cell identity in mice and humans (4). Additional studies suggest that CNOT3 plays a role in mitotic progression as it destabilizes mitotic spindle assembly protein MAD1 mRNA (5). Finally, <i>CNOT3</i> appears to act as a modifier gene affecting the penetrance of mutations causing autosomal dominant retinitis pigmentosa (6) and as a tumor suppressor associated with cases of adult T-cell acute lymphoblastic leukemia (7).</li> <li>1. Denis, C.L. and Chen, J. (2003) <i>Prog Nucleic Acid Res Mol Biol</i> 73, 221-50.</li> <li>2. Lau, N.C. et al. (2011) <i>Biochem Biophys Res Commun</i> 411, 360-4.</li> <li>4. Zheng, X. et al. (2012) <i>Stem Cells</i> 30, 910-22.</li> <li>5. Takahashi, A. et al. (2012) <i>Biochem Biophys Res Commun</i> 419, 268-73.</li> <li>6. Venturini, G. et al. (2012) <i>PLoS Genet</i> 8, e1003040.</li> <li>7. De Keersmaecker, K. et al. (2013) <i>Nat Genet</i> 45, 186-90.</li> </ul>						
Species Reactivity	<b>y</b> Spec	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern blot).		
Western Blot Buff		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.				6 w/v nonfat dry		
Applications Key	WB	: Western Blotting IP:	: Immunoprecipi	tation				
Cross-Reactivity I	<b>X</b> : X	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						
Trademarks and Patents	All o			of Cell Signaling Techno neir respective owners. V		demarks for more		
Limited Uses	follow	wing terms apply to P	roducts provide	a writing signed by a leg d by CST, its affiliates of ent from, those containe	r its distributors. Any C	ustomer's terms and		

## CNOT3 (D4K4N) Rabbit mAb (#40608) 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.