Store at -20C	N-Myc (D1V2A) Rabbit mAb	C T	Cell Signaling			
		Orders:	877-616-CELL (2355) orders@cellsignal.com			
90		Support:	877-678-TECH (8324)			
#84406		Web:	info@cellsignal.com cellsignal.com			
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA			
For Research Use Only. Not for Use in Diagnostic Procedures.						

Applications:Reactivity:W, IP, IF-IC, FC-FP,H MChIP, ChIP-seq	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #P04198	Entrez-Gene Id: 4613	
Product Usage Information	For optimal ChIP and 10 ⁶ cells) per IP. This	For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
	Application			Dil	ution	
	Western Blotting			1:1	000	
	Immunoprecipitation	n		1:2	00	
	Immunofluorescence	e (Immunocytochen	nistry)	1:1	00 - 1:400	
	Flow Cytometry (Fixe	d/Permeabilized)			00 - 1:800	
	Chromatin IP			1:5		
	Chromatin IP-seq			1:5	0	
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.					
	For a carrier free (BS	A and azide free) ve	rsion of this product see	product #51063.		
Specificity/Sensitivity	N-Myc (D1V2A) Rabb	it mAb recognizes e	ndogenous levels of tota	l N-Myc protein.		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro335 of human N-Myc protein.					
Background	Members of the Myc/Max/Mad network function as transcriptional regulators with roles in various aspects of cell behavior, including proliferation, differentiation, and apoptosis (1). These proteins share a common basic-helix-loop-helix leucine zipper (bHLH-ZIP) motif required for dimerization and DNA-binding. Max was originally discovered based on its ability to associate with c-Myc and found to be required for the ability of Myc to bind DNA and activate transcription (2). Subsequently, Max has been viewed as a central component of the transcriptional network, forming homodimers as well as heterodimers with other members of the Myc and Mad families (1). The association between Max and either Myc or Mad can have opposing effects on transcriptional regulation and cell behavior (1). The Mad family consists of four related proteins; Mad1, Mad2 (Mxi1), Mad3, and Mad4, and the more distantly related members of the bHLH-ZIP family, Mnt and Mga. Like Myc, the Mad proteins are tightly regulated with short half-lives. In general, Mad family members interfere with Myc-mediated processes, such as proliferation, transformation, and prevention of apoptosis by inhibiting transcription (3,4).					
	expressed in many p embryonic developm and results from tare development and dif	roliferating cells, N- nent and then in the geted deletion of N-l ferentiation (5). In a	enes: c-Myc, N-Myc, L-M Myc expression is very re adult during B-cell devel Myc suggest that N-Myc ddition, amplification or associated with rapid pro	estricted, with highe lopment. These exp plays an important overexpression of l	est levels in during pression patterns role in tissue N-Myc has been	
Background References	2. Blackwood, E.M. a	nd Eisenman, R.N. (´ d Lüscher, B. (1996) (2000) <i>Annu Rev Cel</i>		7.		
Species Reactivity	Species reactivity is c	letermined by testir	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffer	IMPORTANT: For wes TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody i	n 5% w/v BSA, 1X	

Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq
Cross-Reactivity Key	H: Human M: Mouse
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
	Alexa Fluor is a registered trademark of Life Technologies Corporation.
	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 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 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.