3/23/24, 11:26 AM Revision 3

#84406 store at -200 N-Myc (D1)						ell Signaling с н n о l о g ү° 877-616-сеll (2355	
St					Orders.	orders@cellsignal.con	
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or Research Use Only. N Applications:	lot for Use in Reactivity:	Diagnostic Proc Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:	
NB, IP, IF-IC, FC-FP, ChIP, ChIP-seq	H M	Endogenous	62	Rabbit IgG	#P04198	4613	
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μ l of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Ар	plication			C	Dilution	
	We	stern Blotting			1	:1000	
	Imr	nunoprecipitation			1	:200	
	Imr	nunofluorescence	(Immunocytochem	istry)	1	:100 - 1:400	
	Flo	w Cytometry (Fixed	d/Permeabilized)		1	:200 - 1:800	
	Ch	romatin IP			1	:50	
	Ch	romatin IP-seq			1	:50	
Storage	•	•		.5), 150 mM NaCl, 100 not aliquot the antibod		ycerol and less than	
Specificity / Sensitiv	vity N-M	yc (D1V2A) Rabbit	mAb recognizes e	endogenous levels of to	otal N-Myc protein.		
Source / Purificatior		loclonal antibody is dues surrounding F		unizing animals with a I-Myc protein.	synthetic peptide co	rresponding to	
Background	Members of the Myc/Max/Mad network function as transcriptional regulators with roles in various of cell behavior, including proliferation, differentiation, and apoptosis (1). These proteins share a basic-helix-loop-helix leucine zipper (bHLH-ZIP) motif required for dimerization and DNA-binding originally discovered based on its ability to associate with c-Myc and found to be required for the Myc to bind DNA and activate transcription (2). Subsequently, Max has been viewed as a centra 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 opposing effects on transcriptional regulation and cell behavior (1). The Mad family consists of for proteins; Mad1, Mad2 (Mxi1), Mad3, and Mad4, and the more distantly related members of the t family, Mnt and Mga. Like Myc, the Mad proteins are tightly regulated with short half-lives. In ger family members interfere with Myc-mediated processes, such as proliferation, transformation, ar prevention of apoptosis by inhibiting transcription (3,4).				eins share a common DNA-binding. Max was juired for the ability of a as a central ners with other Myc or Mad can have consists of four related bers of the bHLH-ZIP -lives. In general, Mad		
	expi emb resu and	ressed in many pro pryonic developmer llts from targeted d differentiation (5).	liferating cells, N-N nt and then in the a eletion of N-Myc s In addition, amplifi	enes: c-Myc, N-Myc, L- Myc expression is very adult during B-cell deve uggest that N-Myc play cation or overexpressio apid progression and p	restricted, with high lopment. These exp s an important role on of N-Myc has bee	est levels in during ression patterns and in tissue development	
Background Refere	2. B 3. H	lackwood, E.M. and enriksson, M. and I randori, C. et al. (2	d Eisenman, R.N. Lüscher, B. (1996)	1) Mol Cell Biol 21, 692 (1991) Science 251, 12 Adv Cancer Res 68, 1 Ell Dev Biol 16, 653-99.	211-7. 09-82.		

3/23/24, 11:26 AM	N-Myc (D1V2A) Rabbit mAb (#84406) Datasheet Without Images Cell Signaling Technology 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	WB: 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 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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