N-Myc Antibody



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

Applications: R	eactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit	UniProt ID: #P04198	Entrez-Gene Io 4613
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		N-Myc Antibody detects endogenous levels human N-Myc and transfected levels of mouse N-Myc. It does not cross-react with other Myc family members.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding lysine 351 of human N-Myc. Antibodies were purified by protein A and peptide affinity chromatography.				
Background		aspects of cell behavi a common basic-helix binding. Max was orig required for the abilit viewed as a central co heterodimers with ot either Myc or Mad ca Mad family consists of distantly related men regulated with short	or, including prolife c-loop-helix leucine ginally discovered b y of Myc to bind DN component of the tra her members of the n have opposing eff of four related prote hbers of the bHLH-Z half-lives. In genera	function as transcription ration, differentiation, a zipper (bHLH-ZIP) motifiased on its ability to ass A and activate transcripnscriptional network, for Myc and Mad families (ects on transcriptional rins; Mad1, Mad2 (Mxi1), IP family, Mnt and Mgall, Mad family members imation, and prevention	nd apoptosis (1). The required for dimeriociate with c-Myc a stion (2). Subsequer frming homodimers (1). The association regulation and cell lended, and Mad4, and Like Myc, the Madinterfere with Myc-I	tese proteins share tration and DNA- nd found to be titly, Max has been as well as between Max and behavior (1). The and the more proteins are tightly mediated
		In humans the Myc family consists of 5 genes: c-Myc, N-Myc, L-Myc, R-Myc, and B-Myc. While c-Myc is expressed in many proliferating cells, N-Myc expression is very restricted, with highest levels in during embryonic development and then in the adult during B-cell development. These expression patterns and results from targeted deletion of N-Myc suggest that N-Myc plays an important role in tissue development and differentiation (5). In addition, amplification or overexpression of N-Myc has been found in human neuroblastomas and is associated with rapid progression and poor prognosis (6,7).				
Background References		2. Blackwood, E.M. ar 3. Henriksson, M. and 4. Grandori, C. et al. (5. Sawai, S. et al. (199 6. Schwab, M. et al. (1	no, T.A. and Cleveland, J.L. (2001) <i>Mol Cell Biol</i> 21, 691-702. wood, E.M. and Eisenman, R.N. (1991) <i>Science</i> 251, 1211-7. ksson, M. and Lüscher, B. (1996) <i>Adv Cancer Res</i> 68, 109-82. dori, C. et al. (2000) <i>Annu Rev Cell Dev Biol</i> 16, 653-99. , S. et al. (1993) <i>Development</i> 117, 1445-1455. ab, M. et al. (1984) <i>Proc. Natl. Acad. Sci. USA</i> 81, 4940-4944. eur, G.M. et al. (1984) <i>Science</i> 224, 1121-1124.			
Species Reactivity		Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.	western hlot)

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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

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