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MYCN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant MYCN.
Catalog # AT2948a

Product Information

Application	WB, E
Primary Accession	P04198
Other Accession	NM_005378
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3H4
Calculated MW	49561

Additional Information

Gene ID	4613
Other Names	N-myc proto-oncogene protein, Class E basic helix-loop-helix protein 37, bHLHe37, MYCN, BHLHE37, NMYC
Target/Specificity	MYCN (NP_005369, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MYCN Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

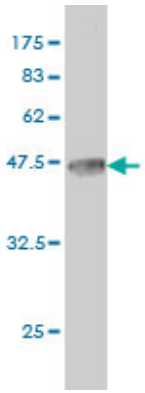
This gene is a member of the MYC family and encodes a protein with a basic helix-loop-helix (bHLH) domain. This protein is located in the nucleus and must dimerize with another bHLH protein in order to bind DNA. Amplification of this gene is associated with a variety of tumors, most notably neuroblastomas.

References

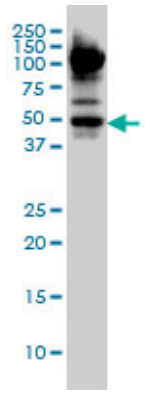
Analysis of the REL, BCL11A, and MYCN proto-oncogenes belonging to the 2p amplicon in chronic lymphocytic leukemia. Deambrogi C, et al. Am J Hematol, 2010 Jul. PMID 20575024.Pleiotropic role for MYCN in medulloblastoma. Swartling FJ, et al. Genes Dev, 2010 May 15. PMID 20478998.Transcriptional repression

of SKP2 is impaired in MYCN-amplified neuroblastoma. Muth D, et al. Cancer Res, 2010 May 1. PMID 20424123.MicroRNA-184 inhibits neuroblastoma cell survival through targeting the serine/threonine kinase AKT2. Foley NH, et al. Mol Cancer, 2010 Apr 21. PMID 20409325.Subtype-specific FBXW7 mutation and MYCN copy number gain in Wilms' tumor. Williams RD, et al. Clin Cancer Res, 2010 Apr 1. PMID 20332316.

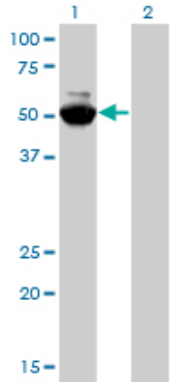
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

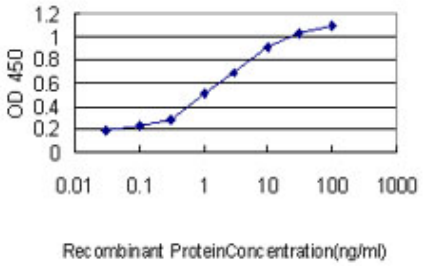


MYCN monoclonal antibody (M01), clone 3H4 Western Blot analysis of MYCN expression in HepG2 ((Cat # AT2948a)



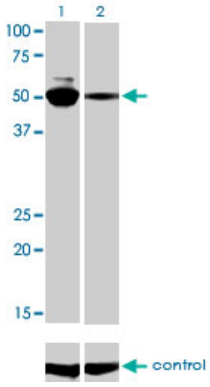
Western Blot analysis of MYCN expression in transfected 293T cell line by MYCN monoclonal antibody (M01), clone 3H4.

Lane 1: MYCN transfected lysate(49.6 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged MYCN is approximately 0.03ng/ml as a capture antibody.

Western blot analysis of MYCN over-expressed 293 cell line, cotransfected with MYCN Validated Chimera RNAi ((Cat # AT2948a)



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.