abcam

Product datasheet

Anti-n-Myc/MYCN antibody [NCM II 100] ab16898

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Overview

Product name	Anti-n-Myc/MYCN antibody [NCM II 100]
Description	Mouse monoclonal [NCM II 100] to n-Myc/MYCN
Host species	Mouse
Specificity	This antibody reacts with N-myc/MYCN encoded proteins and their cleavage products.
Tested applications	**Suitable for:** IP, IHC-Fr, ICC/IF, WB, ChIP, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Fusion protein corresponding to Human n-Myc/MYCN. Recombinant fusion protein. Original clone reference: PubMed ID - 2426708. Database link: **P04198**
Positive control	IMR5 Cells
General notes	This product was changed from ascites to tissue culture supernatant on 17 May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Constituents: 0.82% Sodium phosphate, 50% Glycerol
Purity	Tissue culture supernatant
Purification notes	Purified from TCS.
Clonality	Monoclonal

Clone number	NCM II 100
Myeloma	Sp2/0
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab16898 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration. It is important to compensate for the short half life of this protein when preparing tissue sections or extracts. We recommended that all preparations be kept cold and that a cocktail of protease inhibitors be used.
IHC-Fr		Use at an assay dependent concentration. See references.
ICC/IF		Use at an assay dependent concentration. Pubmed ID: 2426708.
WB	★★★★☆ (1)	Use at an assay dependent concentration. Predicted molecular weight: 50 kDa. See references.
ChIP		Use at an assay dependent concentration. PubMed: 19495417 Suggested to be used at 2 ug.
Flow Cyt		Use at an assay dependent concentration. It is important to compensate for the short half life of this protein when preparing tissue sections or extracts. We recommended that all preparations be kept cold and that a cocktail of protease inhibitors be used. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody

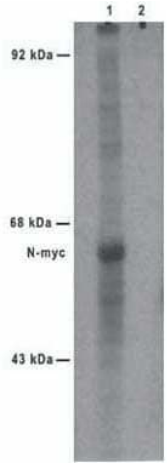
Target

Function May function as a transcription factor.

Involvement in disease Note=Amplification of the N-MYC gene is associated with a variety of human tumors, most frequently neuroblastoma, where the level of amplification appears to increase as the tumor progresses.
Defects in MYCN are the cause of microcephaly-oculo-digito-esophageal-duodenal syndrome (MODED) [MIM:164280]; also known as oculodigitoesophagoduodenal syndrome (ODED). Microcephaly-oculo-digito-esophageal-duodenal syndrome is characterized by variable combinations of esophageal and duodenal atresias, microcephaly, learning disability and limb malformations. Cardiac and renal malformations, vertebral anomalies, and deafness have also been described.
Defects in MYCN are the cause of microcephaly and digital abnormalities with normal intelligence

	(MCPHDANI) [MIM:602585].
Sequence similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Developmental stage	Expressed during fetal development.
Cellular localization	Nucleus.

Images



Immunoprecipitation - Anti-n-Myc/MYCN antibody [NCM II 100] (ab16898)

Immunoprecipitation of N-Myc/MYCN from S35 methionine-labeled IMR-5 cells using ab16898 (lane 1) and Normal Mouse IgG (lane 2). ab16898 used at 1 mg/sample.

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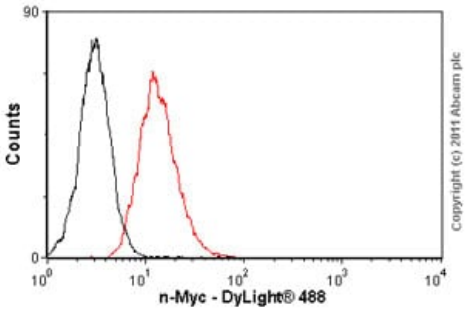

Flow Cytometry - Anti-n-Myc/MYCN antibody [NCM II 100] (ab16898)

Overlay histogram showing SH-SY5Y cells stained with ab16898 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab16898, 0.5µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (**ab96879**) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

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