

## Product datasheet

# Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - ChIP Grade ab227822

Recombinant RabMAb

[1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - ChIP Grade
<b>Description</b>	Rabbit monoclonal [EPR18982-8R-3] to n-Myc/MYCN - ChIP Grade
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ChIP, WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: IMR-32 whole cell lysate. IP: IMR-32 whole cell lysate. ChIP: Chromatin prepared from IMR-32 cells.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 49% Glycerol (glycerin, glycerine), PBS</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR18982-8R-3

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab227822 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
ChIP		Use 5 µg for 25 µg of chromatin.
WB		1/1000. Detects a band of approximately 49-62 kDa (predicted molecular weight: 50 kDa).
IP		1/30.

## 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.

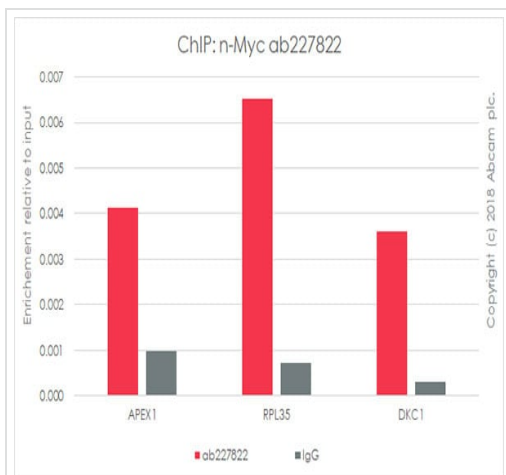
### Developmental stage

Expressed during fetal development.

### Cellular localization

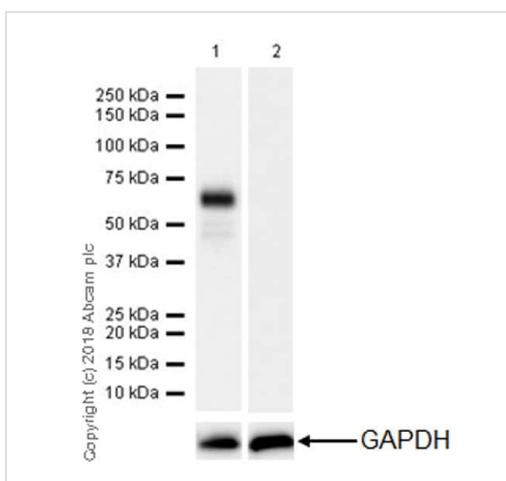
Nucleus.

## Images



ChIP - Anti-n-Myc/MYCN antibody [EPR18982-8R-3]  
- ChIP Grade (ab227822)

Chromatin was prepared from IMR-32 cells according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10min. The ChIP was performed with 25 µg of chromatin, 5 µg of ab227822 (red), and 20 µl of Protein A/G sepharose beads. 5 µg of rabbit normal IgG was added to the beads control (gray). The immunoprecipitated DNA was quantified by real time PCR (SYBR green approach). Primers and probes are located in the first kb of the transcribed region.



Western blot - Anti-n-Myc/MYCN antibody  
[EPR18982-8R-3] - ChIP Grade (ab227822)

**All lanes** : Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - ChIP Grade (ab227822) at 1/1000 dilution

**Lane 1** : IMR-32 (human neuroblastoma neuroblast cell line) whole cell lysate

**Lane 2** : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 50 kDa

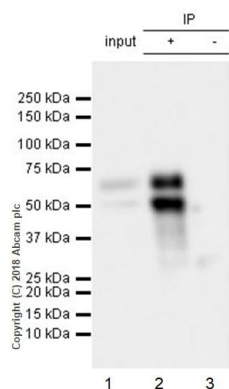
**Observed band size:** 62 kDa

**Exposure time:** 103 seconds

Blocking and dilution buffer: 5% NFDM/TBST

The expression profile observed is consistent with what has been described in the literature (PMID: 11034201; PMID: 27197171; PMID: 23792191).

Negative control: HeLa (PMID: 27197171).



Immunoprecipitation - Anti-n-Myc/MYCN antibody  
[EPR18982-8R-3] - ChIP Grade (ab227822)

n-Myc/MYCN was immunoprecipitated from 0.35 mg of IMR-32 (human neuroblastoma neuroblast cell line) whole cell lysate with ab227822 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab227822 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

Lane 1: IMR-32 whole cell lysate 10 µg (Input).

Lane 2: ab227822 IP in IMR-32 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab227822 in IMR-32 whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 3 seconds.

The expression profile observed is consistent with what has been described in the literature (PMID: 17938259; PMID: 2657399).

#### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - ChIP Grade (ab227822)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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