abcam

Product datasheet

Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - BSA and Azide free ab236459

Recombinant RabMAb

4 Images

Overview

Product name	Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - BSA and Azide free
Description	Rabbit monoclonal [EPR18982-8R-3] to n-Myc/MYCN - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, ChIP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: IMR-32 whole cell lysate.
General notes	ab236459 is the carrier-free version of **ab227822**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18982-8R-3
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236459 in the following tested applications.

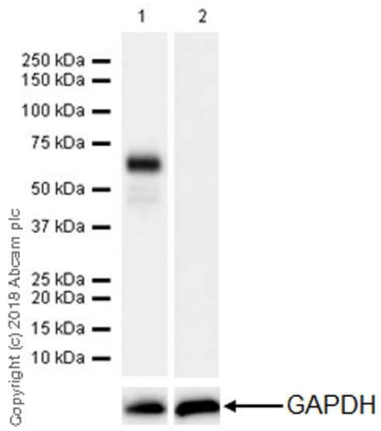
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 49-62 kDa (predicted molecular weight: 50 kDa).
IP		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.

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



Western blot - Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - BSA and Azide free (ab236459)

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).

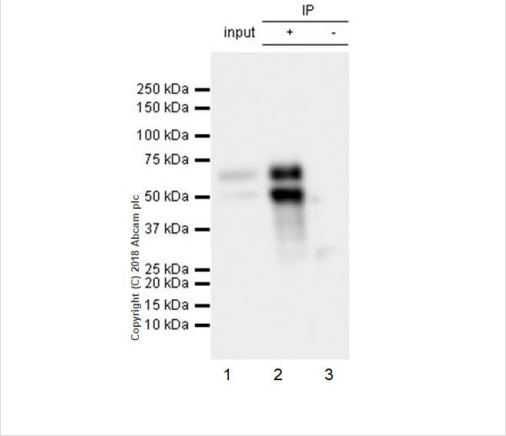
Negative control: HeLa (PMID: 27197171).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227822**).

ChIP - Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - BSA and Azide free (ab236459)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227822**).



Immunoprecipitation - Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - BSA and Azide free (ab236459)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab227822**).

Anti-n-Myc/MYCN antibody [EPR18982-8R-3] - BSA and Azide free (ab236459)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors