abcam

Product datasheet

Anti-n-Myc/MYCN antibody [EPR18982-13] ab189528

Recombinant RabMAb

5 Images

Overview

Product name	Anti-n-Myc/MYCN antibody [EPR18982-13]
Description	Rabbit monoclonal [EPR18982-13] to n-Myc/MYCN
Host species	Rabbit
Specificity	Detection of endogenous expression of n-Myc/MYCN in WB will need optimization. Under our experimental conditions we could not detect endogenous n-Myc/MYCN in human cell lysates.
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293 whole cell lysate transfected with n-Myc/MYCN with GFP-tag.
General notes	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18982-13

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab189528 in the following tested applications.

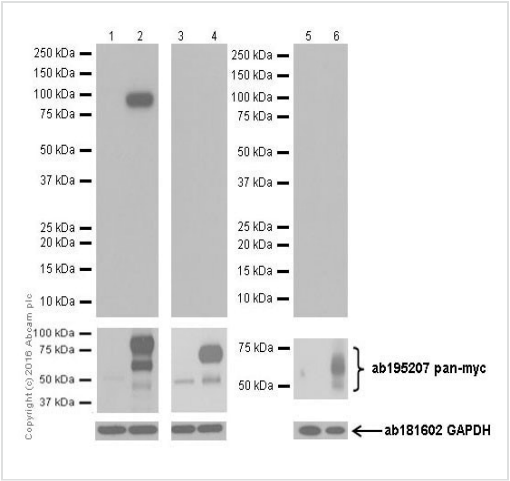
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000.
IP		1/40.

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 [EPR18982-13] (ab189528)

All lanes : Anti-n-Myc/MYCN antibody [EPR18982-13] (ab189528) at 1/1000 dilution

Lanes 1 & 3 & 5 : Untransfected HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate (control)
Lane 2 : HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with n-Myc/MYCN with GFP-tag
Lane 4 : HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with l-Myc with GST-tag
Lane 6 : HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with c-Myc with His-tag

Lysates/proteins at 20 µg per lane.

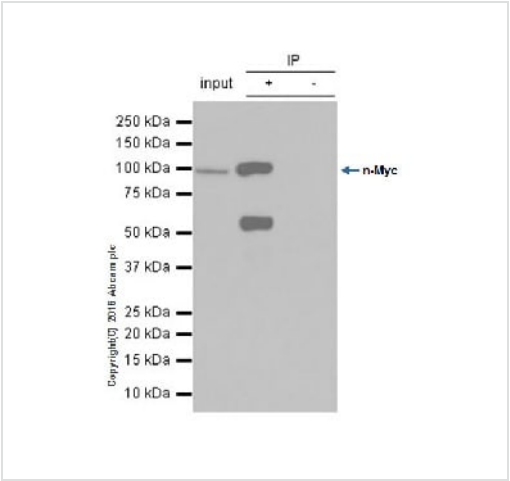
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Additional bands at: 83 kDa (possible tagged protein)

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

n-Myc/MYCN is tagged with GFP, therefore its expected MW is 83 kD under these conditions.



Immunoprecipitation - Anti-n-Myc/MYCN antibody [EPR18982-13] (ab189528)

n-Myc/MYCN was immunoprecipitated from 2µg of HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysates with **ab194094** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using ab189528 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct, 10ug (Input).

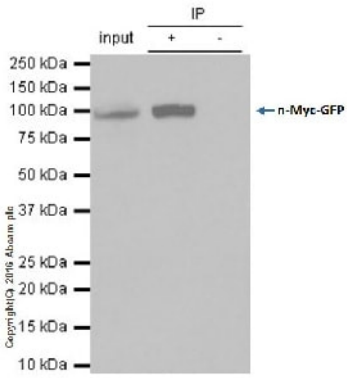
Lane 2: ab189528 IP in HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of ab189528 IP in HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct.

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

Exposure time: 30 seconds.

ab189528 immuno-precipitated the overexpressed n-Myc/MYCN-GFP (~100 kDa) in the transfected HEK-293 lysate and an additional 50 kDa off-target band. The overexpressed n-Myc/MYCN-GFP was recognized by **ab290** (anti-GFP antibody, IP #2) and **ab16898** (anti-n-Myc/MYCN antibody, IP #3).



Immunoprecipitation - Anti-n-Myc/MYCN antibody [EPR18982-13] (ab189528)

n-Myc/MYCN was immunoprecipitated from 2µg of HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysates with ab189528 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab16898** at 1/1000 dilution.

Goat Anti-Mouse IgG (H+L) Peroxidase Conjugate, was used as secondary antibody at 1/10000 dilution.

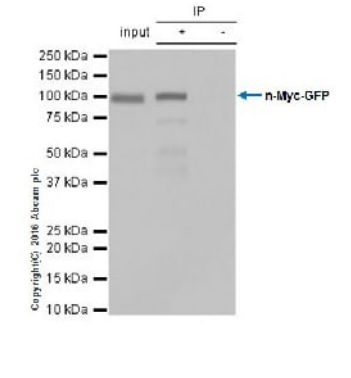
Lane 1: HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct, 10ug (Input).

Lane 2: ab189528 IP in HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of ab189528 IP in HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct.

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

Exposure time: 1 second.



Immunoprecipitation - Anti-n-Myc/MYCN antibody [EPR18982-13] (ab189528)

n-Myc/MYCN was immunoprecipitated from 2µg of HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysates with ab189528 at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab290** at 1/2000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

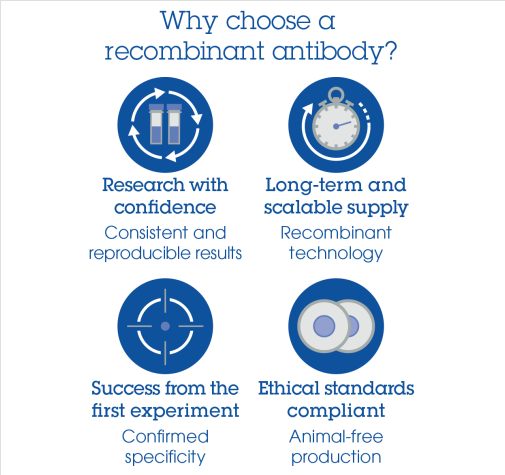
Lane 1: HEK-293 whole cell lysate transfected with n-Myc/MYCN, 10ug (Input).

Lane 2: ab189528 IP in HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) instead of ab189528 IP in HEK-293 whole cell lysate transfected with GFP-tagged n-Myc/MYCN construct.

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

Exposure time: 30 seconds.



Anti-n-Myc/MYCN antibody [EPR18982-13]

(ab189528)

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