abcam

Product datasheet

Anti-N myc interactor/NMI antibody [EPR11065(2)] ab183724

KO VALIDATED Recombinant RabMAb

8 References 7 Images

Overview

Product name	Anti-N myc interactor/NMI antibody [EPR11065(2)]
Description	Rabbit monoclonal [EPR11065(2)] to N myc interactor/NMI
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF, IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, A549, K562 and HepG2 cell lysates. IHC-P: Human tonsil tissue. ICC: HeLa cells.
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: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR11065(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183724 in the following tested applications.

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

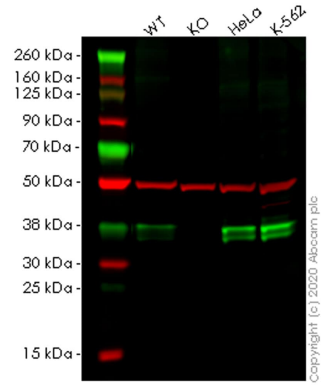
Application	Abreviews	Notes
WB		1/10000 - 1/50000. Detects a band of approximately 38 kDa (predicted molecular weight: 35 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP		1/40 - 1/60.

Target

Relevance NMYC interactor (NMI) encodes a protein that interacts with NMYC and CMYC (two members of the oncogene Myc family), and other transcription factors containing a Zip, HLH, or HLH Zip motif. The NMI protein also interacts with all STATs except STAT2 and augments STAT mediated transcription in response to cytokines IL2 and IFN gamma. The NMI mRNA has high expression in myeloid leukemia cell lines.

Cellular localization Cytoplasmic

Images



Western blot - Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

All lanes : Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724) at 1/1000 dilution

Lane 1 : Wild-type A549 (Human lung carcinoma cell line) whole cell lysate
Lane 2 : NMI knockout A549 (Human lung carcinoma cell line) whole cell lysate
Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate
Lane 4 : K562 (Human chronic myelogenous leukemia lymphoblast cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

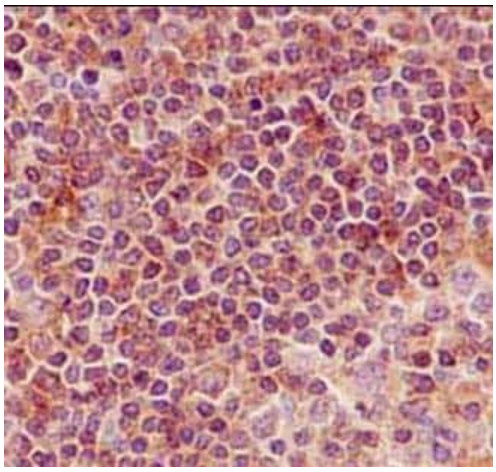
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW)

preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 35 kDa
Observed band size: 39 kDa

Lanes 1-4: Merged signal (red and green). Green - ab183724 observed at 39 kDa. Red - loading control **ab8245** observed at 36 kDa.

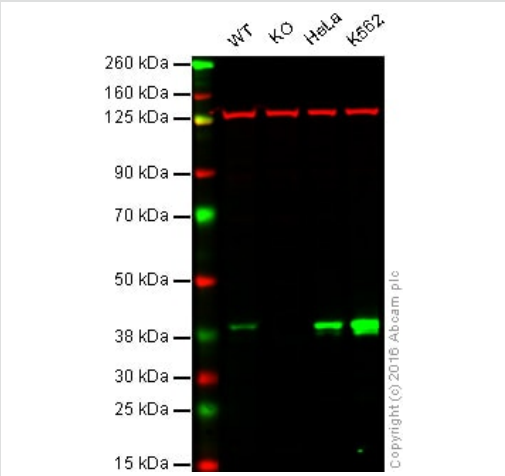
ab183724 Anti-N myc interactor/NMI antibody [EPR11065(2)] was shown to specifically react with N myc interactor/NMI in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab267013** (knockout cell lysate **ab258077**) was used. Wild-type and N myc interactor/NMI knockout samples were subjected to SDS-PAGE. ab183724 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

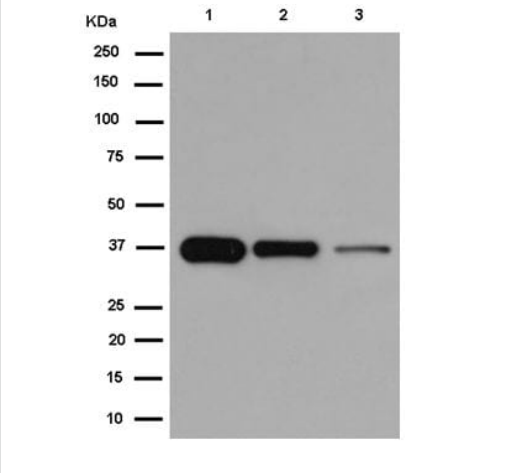
Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling N myc interactor/NMI with ab183724 at 1/50 dilution. The slide is counterstained with Hematoxylin.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.



Western blot - Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: N myc interactor/NMI knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: K562 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab183724 observed at 39 kDa. Red - loading control, **ab18058**, observed at 124 kDa.
ab183724 was shown to specifically react with N myc interactor/NMI when N myc interactor/NMI knockout samples were used. Wild-type and N myc interactor/NMI knockout samples were subjected to SDS-PAGE. ab183724 and **ab18058** (loading control to Vinculin) were diluted at 1/2000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

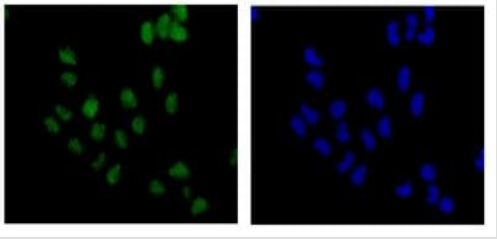
All lanes : Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724) at 1/20000 dilution

Lane 1 : K562 cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.

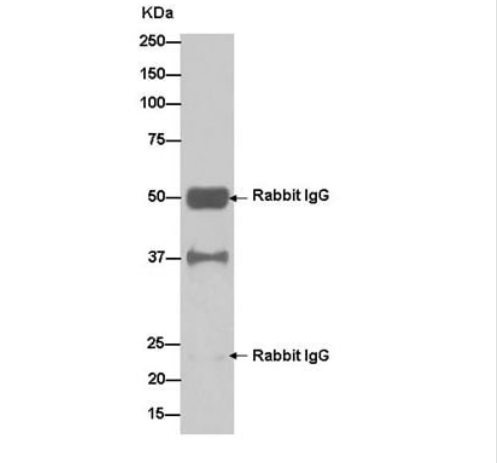
Secondary
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 35 kDa



Immunocytochemistry/ Immunofluorescence - Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

Immunofluorescence analysis of acetone-fixed HeLa cells labeling N myc interactor/NMI with ab183724 at 1/100 dilution. Goat anti-rabbit IgG (Alexa Fluor® 488) at 1/200 dilution was used as the secondary antibody (green). The slide on the right is stained with Dapi (blue).



Immunoprecipitation - Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

Western blot analysis of K562 cell lysate precipitated with ab183724 at 1/50 dilution. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution was then used. The blocking buffer and dilution buffer was 5% NFDM/TBST.

Anti-N myc interactor/NMI antibody [EPR11065(2)] (ab183724)

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