

Product datasheet

Anti-nmt55 / p54nrb antibody ab50411

★★★★★ 1 Abreviews 4 References 3 Images

Overview

Product name	Anti-nmt55 / p54nrb antibody
Description	Goat polyclonal to nmt55 / p54nrb
Host species	Goat
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Dog, Cynomolgus monkey 
Immunogen	Synthetic peptide: C-NRAAPGAEFAPNK , corresponding to C terminal amino acids 455-467 of Human nmt55/ p54nrb Run BLAST with Run BLAST with
Positive control	Mouse Brain lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab50411** 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 a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 55 kDa).
IHC-P		Use a concentration of 3 - 6 µg/ml.

Target

Function	DNA- and RNA binding protein, involved in several nuclear processes. Binds the conventional octamer sequence in double stranded DNA. Also binds single-stranded DNA and RNA at a site independent of the duplex site (By similarity). Involved in pre-mRNA splicing, probably as an heterodimer with SFPQ. Interacts with U5 snRNA, probably by binding to a purine-rich sequence located on the 3' side of U5 snRNA stem 1b. The SFPQ-NONO heteromer associated with MATR3 may play a role in nuclear retention of defective RNAs. The SFPQ-NONO heteromer may be involved in DNA unwinding by modulating the function of topoisomerase <i>ITOP1</i> . The SFPQ-NONO heteromer may be involved in DNA nonhomologous end joining (NHEJ) required for double-strand break repair and V(D)J recombination and may stabilize paired DNA ends. In vitro, the complex strongly stimulates DNA end joining, binds directly to the DNA substrates and cooperates with the Ku70/G22P1-Ku80/XRCC5 (Ku) dimer to establish a functional preligation complex. Nono is involved in transcriptional regulation. The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity. NONO binds to an enhancer element in long terminal repeats of endogenous intracisternal A particles (IAPs) and activates transcription.
Tissue specificity	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Also found in a number of breast tumor cell lines.
Involvement in disease	Note=A chromosomal aberration involving NONO may be a cause of papillary renal cell carcinoma (PRCC). Translocation t(X;X)(p11.2;q13.1) with TFE3.
Sequence similarities	Contains 2 RRM (RNA recognition motif) domains.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Nucleus.

Images



Western blot - Anti-nmt55 / p54nrb antibody (ab50411)

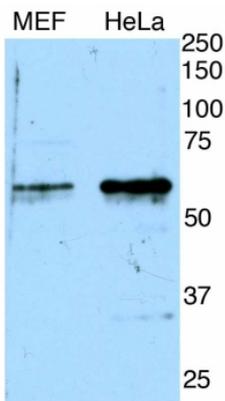
Anti-nmt55 / p54nrb antibody (ab50411) at 0.1 µg/ml + Mouse Brain lysate (35µg protein in RIPA buffer).

Predicted band size: 55 kDa

Observed band size: 60 kDa

[why is the actual band size different from the predicted?](#)

Primary incubation was 1 hour. Detected by chemiluminescence.



Western blot - Anti-nmt55 / p54nrb antibody (ab50411)

All lanes : Anti-nmt55 / p54nrb antibody (ab50411) at 1/2000 dilution

Lane 1 : MEF whole cell lysate

Lane 2 : HeLa whole cell lysate

Lysates/proteins at 50 µg per lane.

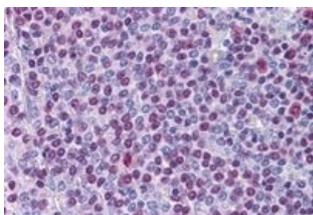
Secondary

All lanes : Donkey anti-goat IgG HRP

Predicted band size: 55 kDa

Observed band size: 55 kDa

This image was submitted courtesy of an Abreview, please refer to Abreview for further experimental details.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-nmt55 / p54nrb antibody (ab50411)

ab50411 at 3.8 µg/ml staining nmt55 / p54nrb in Human spleen by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Steamed antigen retrieval with citrate buffer pH 6 was performed. Antibody was revealed with AP-staining.

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