



## Rabbit Anti-NMT55 antibody

SL19299R

<b>Product Name:</b>	NMT55
<b>Chinese Name:</b>	核RNABinding proteinP54抗体
<b>Alias:</b>	52 kDa subunit; 54 kDa nuclear RNA and DNA binding protein; 54 kDa nuclear RNA- and DNA-binding protein; 55 kDa nuclear protein; DNA binding p52/p100 complex 52 kDa subunit; DNA-binding p52/p100 complex; NMT 55; NMT55; Non Pou domain containing octamer (ATGCAAAT) binding protein; Non POU domain containing octamer binding; Non POU domain containing octamer binding protein; Non-POU domain-containing octamer-binding protein; NONO; NonO protein; NONO_HUMAN; NRB 54; NRB; NRB54; Nuclear RNA binding protein 54kD; P54; p54(nrb); p54nrb.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	54kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human NMT55:21-120/471
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	This gene encodes an RNA-binding protein which plays various roles in the nucleus,

including transcriptional regulation and RNA splicing. A rearrangement between this gene and the transcription factor E3 gene has been observed in papillary renal cell carcinoma. Alternatively spliced transcript variants have been described. Pseudogenes exist on Chromosomes 2 and 16. [provided by RefSeq, Feb 2009]

**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 a 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/TOP1. 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.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Also found in a number of breast tumor cell lines.

**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.

**Similarity:**

Contains 2 RRM (RNA recognition motif) domains.

**SWISS:**

Q15233

**Gene ID:**

4841

**Database links:**

[Entrez Gene: 4841](#) Human

[Entrez Gene: 53610](#) Mouse

[Entrez Gene: 100171449](#) Orangutan

[Entrez Gene: 317259](#) Rat

[Omim: 300084](#) Human

[SwissProt: Q15233](#) Human

[SwissProt: Q99K48](#) Mouse

[SwissProt: Q5RFL9](#) Orangutan

[SwissProt: Q5FVM4](#) Rat

[Unigene: 533282](#) Human

[Unigene: 700344](#) Human

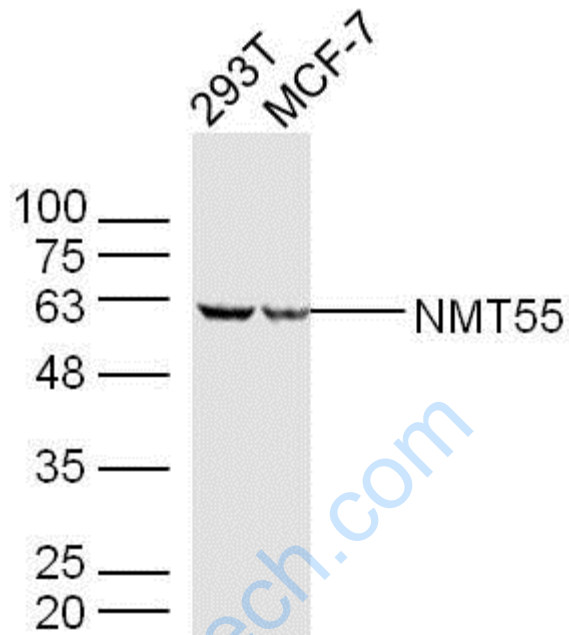
[Unigene: 280069](#) Mouse

[Unigene: 8381](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

293T (human) Cell Lysate at 40 ug

MCF-7 (human) Lysate at 40 ug

Primary: Anti-alpha smooth muscle Actin (SL19299R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 54 kD

Observed band size: 60 kD