

**DATASHEET**

**p54nrb Rabbit Polyclonal Antibody**

CAT. NO. APA12710

**KEY FEATURES**

Target	p54nrb	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

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 . 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 . Together with PSCP1, required for the formation of nuclear paraspeckles . 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 .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	1:20 - 1:50

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to p54nrb
Specificity	Recognizes endogenous levels of p54nrb protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human p54nrb
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 43; Observed: 58 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	NRB54; Non-POU domain-containing octamer-binding protein; NonO protein; 54 kDa nuclear RNA- and DNA-binding protein; 55 kDa nuclear protein; DNA-binding p52/p100 complex, 52 kDa subunit; NMT55; p54(nrb); p54nrb
Gene Symbol	NONO
Entrez Gene	4841(Human); 53610(Mouse); 317259(Rat)
SwissProt	Q15233(Human); Q99K48(Mouse); Q5FVM4(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

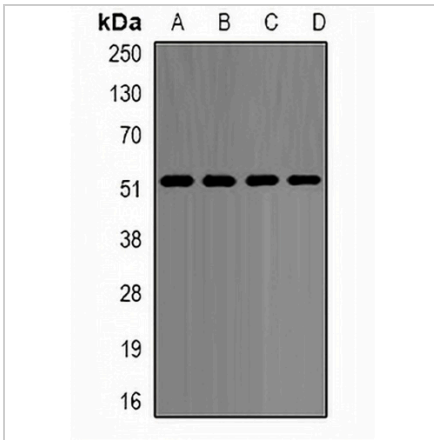
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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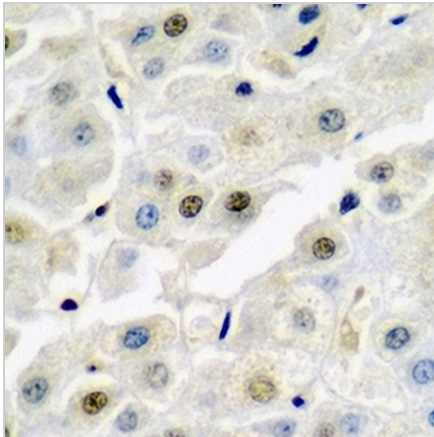
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**DATA**



Western blot analysis of p54nrb expression in HeLa (A), SW620 (B), mouse brain (C), mouse kidney (D) whole cell lysates. (Predicted band size: 43; 54 kD; Observed band size: 58 kD)



Immunohistochemical analysis of p54nrb staining in rat liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.