

ARG40515 anti-NONO / p54nrb antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NONO / p54nrb
Tested Reactivity	Hu
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NONO / p54nrb
Species	Human
Immunogen	Synthetic peptide around the C-terminal region of Human NONO / p54nrb. (within the following region: DGTGLTPPTTERFGQAATMEGIGAIGGTTPPAFNRAAPGAEFAPNKRRRY)
Conjugation	Un-conjugated
Alternate Names	Non-POU domain-containing octamer-binding protein; p54nrb; NonO protein; DNA-binding p52/p100 complex, 52 kDa subunit; P54NRB; NRB54; p54; NMT55; 55 kDa nuclear protein; 54 kDa nuclear RNA- and DNA-binding protein; P54; PPP1R114; nrb

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-P	4 - 8 µg/ml
	WB	1.25 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.
Preservative	0.09% (w/v) Sodium azide
Stabilizer	2% Sucrose
Concentration	Batch dependent: 0.5 - 1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

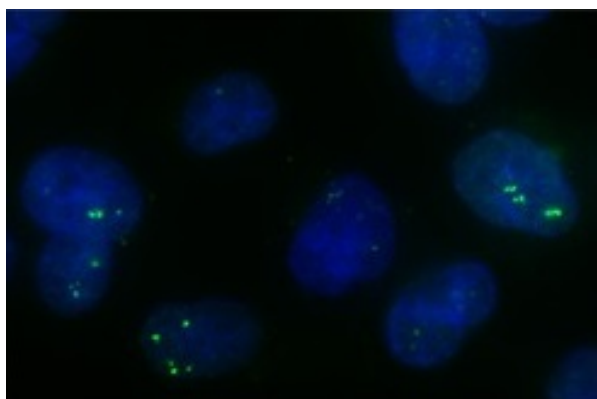
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

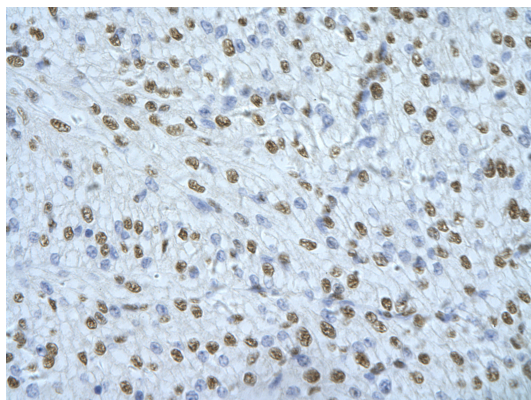
Gene Symbol	NONO
Gene Full Name	non-POU domain containing, octamer-binding
Background	This gene encodes an RNA-binding protein which plays various roles in the nucleus, including transcriptional regulation and RNA splicing. A rearrangement between this gene and the transcription factor E3 gene has been 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. 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 PSPC1, 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. The SFPQ-NONO heteromer may be involved in DNA non-homologous 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. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer. [UniProt]
Calculated Mw	54 kDa
PTM	The N-terminus is blocked. [UniProt]
Cellular Localization	Nucleus. Nucleus, nucleolus. Nucleus speckle. Note=Detected in punctate subnuclear structures often located adjacent to splicing speckles, called paraspeckles. [UniProt]

Images



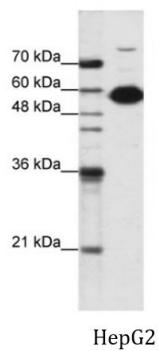
ARG40515 anti-NONO / p54nrb antibody ICC/IF image

Immunofluorescence: Subnuclear bodies-paraspeckles stained with ARG40515 anti-NONO / p54nrb antibody.



ARG40515 anti-NONO / p54nrb antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human cardiac tissue (epithelial cells of renal tubule) stained with ARG40515 anti-NONO / p54nrb antibody at 4 - 8 ug/ml dilution.



ARG40515 anti-NONO / p54nrb antibody WB image

Western blot: HepG2 cell lysate stained with ARG40515 anti-NONO / p54nrb antibody at 1.25 ug/ml dilution.