

Rabbit Nono Polyclonal Antibody | anti-Nono antibody

Nono Antibody

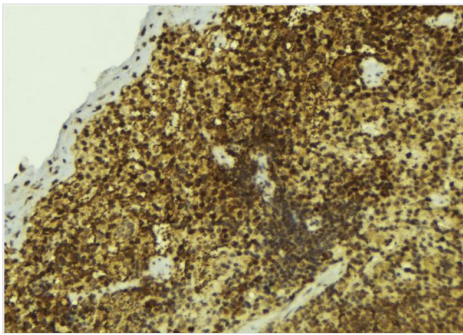
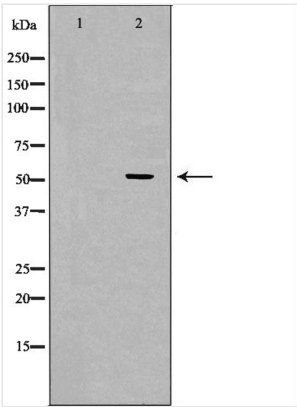
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326957	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Nono; Polyclonal Antibody; Nono Antibody; 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 (ATGCAAT) binding protein; Non POU domain containing octamer binding; Non POU domain containing octamer binding protein; Non-POU domain-containing octamer-binding protein; NonO protein; NONO_HUMAN; NRB 54; NRB; NRB54; Nuclear RNA binding protein 54kD; P54; p54(nrb); p54nrb; PPP1R114; Protein phosphatase 1 regulatory subunit 114; anti-Nono antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Nono antibody detects endogenous levels of total Nono
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	471
Applicable Applications for anti-Nono antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A specific peptide of human Nono
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.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326957 at 1/100 staining Mouse pancreas tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Hela whole cell lysates, using Nono Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-
Nono antibody

Description: 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.

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. Important for the functional organization of GABAergic synapses. Plays a specific and important role in the regulation of synaptic RNAs and GPHN/gephyrin scaffold structure, through the regulation of GABRA2 transcript. Plays a role in the regulation of DNA virus-mediated innate immune response by assembling into the HDP-RNP complex, a complex that serves as a platform for IRF3 phosphorylation and subsequent innate immune response activation through the cGAS-STING pathway (PubMed:28712728).

Subunit Structure: Interacts with CPNE4 (via VWFA domain) (By similarity). Monomer and component of the SFPQ-NONO complex, which is probably a heterotetramer of two 52 kDa (NONO) and two 100 kDa (SFPQ) subunits. NONO is a component of spliceosome and U5.4/6 snRNP complexes. Forms heterodimers with PSPC1; this involves formation of a coiled coil domain by helices from both proteins. Interacts with PSPC1 and SNRPA/U1A. Part of complex consisting of SFPQ, NONO and MATR3. Part of a complex consisting of SFPQ, NONO and NR5A1. Part of a complex consisting of SFPQ, NONO and TOP1. Interacts with SPI1. Interacts with RNF43. Interacts with PER1 and PER2. Part of the HDP-RNP complex composed of at least HEXIM1, PRKDC, XRCC5, XRCC6, paraspeckle proteins (SFPQ, NONO, PSPC1, RBM14, and MATR3) and NEAT1 RNA (PubMed:28712728).

Post-translational Modifications: The N-terminus is blocked.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224028244
NCBI GeneID	4841
NCBI Accession #	NP_001138880.1

NCBI GenBank Nucleotide #	NM_001145408.1
UniProt Accession #	Q15233 ; O00201 ; P30807 ; Q12786 ; Q9BQC5 ; B7Z4C2 ; D3DVV4 ; F5GYZ3
Molecular Weight	Observed: 54 kDa Predicted: 55 kDa
NCBI Official Full Name	non-POU domain-containing octamer-binding protein isoform 1
NCBI Official Synonym Full Names	non-POU domain containing octamer binding
NCBI Official Symbol	NONO
NCBI Official Synonym Symbols	P54; NMT55; NRB54; MRXS34; P54NRB; PPP1R114
NCBI Protein Information	non-POU domain-containing octamer-binding protein
UniProt Protein Name	Non-POU domain-containing octamer-binding protein
UniProt Gene Name	NONO
UniProt Synonym Gene Names	NRB54; NonO protein; p54nrb

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nono-antibody-immunohistochemistry-western-blot-elisa/326957>