

For Research Use Only. Not for use in diagnostic procedures.



Anti-NONO (P54NRB) pAb

CODE No. RN092PW

CLONALITY Polyclonal

ISOTYPE Rabbit Ig, affinity purified

QUANTITY 100 μ L, 1 mg/mL

SOURCE Purified Ig from rabbit serum

FORMURATION PBS containing 50% Glycerol (pH 7.2). No preservative is contained.

STORAGE This antibody solution is stable for one year from the date of purchase when stored at -20°C.

APPLICATIONS-CONFIRMED

<u>Western blotting</u> 1:1,000 for chemiluminescence detection system <u>Immunoprecipitation</u> 5 μ L/500 μ L of cell extract from 2 x 10⁷ cells

APPLICATION-UNDER EVALUATION

<u>Immunocytochemistry</u> 1:100

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Cell	HeLa, A431, Jurkat, 293T	NIH/3T3	Rat1	СНО
Reactivity	+	+	+	+

Entrez Gene ID 4841 (Human), 53610 (Mouse), 317259 (Rat)

For more information, please visit our web site https://ruo.mbl.co.jp/je/rip-assay/

LICENSING OPPORTUNITY: The RIP-Assay uses patented technology (US patent No. 6,635,422, US patent No. 7,504,210) of Ribonomics, Inc. MBL manufactures and distributes this product under license from Ribonomics, Inc. Researchers may use this product for their own research. Researchers are not allowed to use this product or RIP-Assay technology for commercial purpose without a license. For commercial use, please contact us for licensing opportunities at RIP@mbl.co.jp



RN035PW

RN036PW

RN039PW

RN040PW RN042PW

RN043PW RN044PW

RN046PW

Anti-CUGBP2 (polyclonal)

Anti-CPEB2 (polyclonal)

Anti-CPEB4 (polyclonal)

Anti-MBNL1 (polyclonal) Anti-NOVA1 (polyclonal)

Anti-NOVA2 (polyclonal)

Anti-SYNCRIP/HNRNPQ (polyclonal)

Anti-ACO1/IRP1 (polyclonal)

RELATED PRODUCTS		RN047PW	Anti-PTBP2 (polyclonal)
RIP-Assay K	it	RN048PW	Anti-G3BP1 (polyclonal)
RN1001	RIP-Assay Kit	RN049PW	Anti-G3BP2 (polyclonal)
RN1005	RIP-Assay Kit for microRNA	RN050PW	Anti-GRSF1 (polyclonal)
K111003	Kii 7133ay Kit joi microhivi	RN051PW	Anti-HDLBP/Vigilin (polyclonal)
RIP-Certified Antibody		RN052PW	Anti-HNRNPC (polyclonal)
RN001P	Anti-EIF4E (polyclonal)	RN053PW	Anti-PAIP1 (polyclonal)
RN002P	Anti-EIF4G1 (polyclonal)	RN054PW	Anti-PCBP3 (polyclonal)
RN003P	Anti-EIF4G2 (polyclonal)	RN055PW	Anti-AIMP1/SCYE1 (polyclonal)
RN004P	Anti-ELAVL1/HuR (polyclonal)	RN056PW	Anti-SERBP1 (polyclonal)
RN005P	Anti-ELAVL2/HuB (polyclonal)	RN057PW	Anti-TARBP1 (polyclonal)
RN006P	Anti-ELAVL3/HuC (polyclonal)	RN058PW	Anti-TARBP2 (polyclonal)
RN007P	Anti-IGF2BP1/IMP1 (polyclonal)	RN059PW	Anti-TIAL1 (polyclonal)
RN008P	Anti-IGF2BP2/IMP2 (polyclonal)	RN060PW	Anti-HNRNPD/AUF1 (polyclonal)
RN009P	Anti-IGF2BP3/IMP3 (polyclonal)	RN061PW	Anti-HNRNPA0 (polyclonal)
RN010P	Anti-MSI1/Musashi1 (polyclonal)	RN062PW	Anti-DGCR8 (polyclonal)
RN011P	Anti-PTBP1 (polyclonal)	RN063PW	Anti-DHX9 (polyclonal)
RN0111 RN012P	Anti-STAU1 (polyclonal)	RN064PW	Anti-FUSIP1 (polyclonal)
RN012F	Anti-STAU2 (polyclonal)	RN065PW	Anti-KHSRP (polyclonal)
RN0131 RN014P	Anti-TIA1 (polyclonal)	RN066PW	Anti-KIAA0020 (polyclonal)
RN0141 RN015P	Anti-YBX1 (polyclonal)	RN067PW	Anti-PPP1R10 (polyclonal)
RN015F RN016P	Anti-FMR1 (polyclonal)	RN068PW	Anti-PPP1R8 (polyclonal)
RN017P	Anti-FXR1 (polycional)	RN069PW	Anti-RBM14 (polyclonal)
RN0171	Anti-FXR2 (polyclonal)	RN070PW	Anti-RPS10 (polyclonal)
RN019P	Anti-HNRNPK (polyclonal)	RN071PW	Anti-RPS19 (polyclonal)
RN020P	Anti-IIVRIVER (polyclonal) Anti-IIVRIVER (polyclonal)	RN072PW	Anti-RPS6 (polyclonal)
RN020F RN021P	Anti-KHDRBS1 (polyclonal)	RN073PW	Anti-RPS9 (polyclonal)
RN021P RN022P	Anti-PABPC4 (polyclonal)	RN074PW	Anti-SSB (polyclonal)
RN024P	Anti-PCBP1 (polyclonal)	RN075PW	Anti-PPARGC1B (polyclonal)
RN024F RN025P	Anti-PCBP1 (polyclonal)	RN076PW	Anti-PPRC1 (polyclonal)
RN025F RN026P	Anti-PUM1 (polyclonal)	RN077PW	Anti-SMN1 (polyclonal)
RN020P RN027P	Anti-PUM2 (polyclonal)	RN078PW	Anti-SMNDC1 (polyclonal)
	Anti-FUM2 (polyclonal) Anti-EIF2C1/AGO1 (polyclonal)	RN079PW	Anti-SRSF7/9G8 (polyclonal)
RN028P		RN080PW	Anti-SRSF3/SRp20 (polyclonal)
RN032P	Anti-CIRBP (polyclonal)	RN081PW	Anti-SRSF9/SRp30c (polyclonal)
RN033P	Anti-TNRC6A/GW182 (polyclonal)	RN082PW	Anti-SRSF5/SRP40 (polyclonal)
RN037P	Anti-AUH (polyclonal)	RN083PW	Anti-AQR/IBP160 (polyclonal)
RN038P RN041P	Anti-CPEB1 (polyclonal)	RN084PW	Anti-SRRM1/SRM160 (polyclonal)
	Anti-KHDRBS2/SLM1 (polyclonal)	RN085PW	Anti-U2AF1 (polyclonal)
RN045P	Anti-SLBP (polyclonal)	RN086PW	Anti-U2AF2 (polyclonal)
RN001M RN003M	Anti-IGF2BP1/IMP1 (6H6)	RN087PW	Anti-THOC4 (polyclonal)
KINUUSIVI	Anti-EIF2C2/AGO2 (1B1-E2H5)	RN088PW	Anti-NXF1/TAP (polyclonal)
DDD Antihody		RN089PW	Anti-MAGOH (polyclonal)
RBP Antibody PRD Antibody works on WP and for ID but not contified		RN090PW	Anti-DDX21 (polyclonal)
RBP Antibody works on WB and /or IP, but not certified		RN091PW	Anti-DDX23 (polyclonal)
for working on RIP-Assay.		RN092PW	Anti-NONO/p54nrb (polyclonal)
DNO22DW	And: DADDNI (nalvelanal)	RN093PW	Anti-PRPF4 (polyclonal)
RN023PW	Anti-PABPN1 (polyclonal)	RN094PW	Anti-PRPF8 (polyclonal)
RN028PW	Anti-EIF2C1/AGO1 (polyclonal)	RN095PW	Anti-SNRNP200 (polyclonal)
RN029PW	Anti-EIF2C2/AGO2 (polyclonal)	RN096PW	Anti-SNRNP40 (polyclonal)
RN030PW	Anti-DICER1 (polyclonal)	RN097PW	Anti-SNRNP70 (polyclonal)
RN031PW	Anti-ZFP36 (polyclonal)	RN002MW	Anti-CUGBP1 (3B1)
RN034PW	Anti-CUGBP1 (polyclonal)	RN003MW	Anti-EIF2C2/AGO2 (1B1-E2H5)

RN047PW

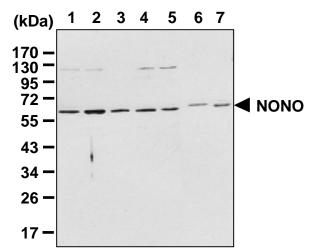
Anti-PTBP2 (polyclonal)

For the latest information of RiboCluster Profiler TM , please visit our website at https://ruo.mbl.co.jp/je/rip-assay/

SDS-PAGE & Western blotting

- 1) Wash 1 x 10⁷ cells 3 times with PBS and suspend them in 1 mL of Laemmli's sample buffer, then sonicate briefly (up to 20 sec.).
- 2) Boil the samples for 3 min. and centrifuge. Load 10 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
- 3) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
- 4) To reduce nonspecific binding, soak the membrane in 5% skimmed milk (in PBS, pH 7.2) for overnight at 4°C.
- 5) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
- 6) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) as suggested in the **APPLICATIONS** for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 7) Wash the membrane with PBS-T (10 min. x 3 times).
- 8) Incubate the membrane with the 1:5,000 anti-IgG (Rabbit)-HRP (MBL; code no. 458) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature.
- 9) Wash the membrane with PBS-T (10 min. x 3 times).
- 10) Wipe excess buffer on the membrane, then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 11) Expose to an X-ray film in a dark room for 3 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive controls for Western blotting; HeLa, 293T, A431, Jurkat, NIH/3T3, Rat1 and CHO)



Western blot analysis of NONO

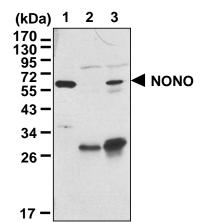
Lane 1: HeLa Lane 2: 293T Lane 3: A431 Lane 4: Jurkat Lane 5: NIH/3T3 Lane 6: Rat1 Lane 7: CHO

Immunoblotted with RN092PW

Immunoprecipitation

- 1) Wash 4 x 10⁷ cells 2 times with PBS and resuspend them with 1 mL of ice-cold Lysis buffer (150 mM NaCl, 20 mM Tris-HCl, pH 8.0, 0.1% NP-40, 10 mM EDTA) containing appropriate protease inhibitors and 1.5 mM DTT. Vortex thoroughly, then incubate it on ice for 10 min.
- 2) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and discard the supernatant.
- 3) Wash the pellet 3 times with PBS and resuspend them with 500 µL RIPA buffer, then sonicate briefly.
- 4) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and transfer the supernatant to another fresh tube.
- 5) Add 500 μL of ice-cold Lysis buffer into the supernatant. Mix by pipetting up and down.
- 6) Add 40 μ L of 50% protein G agarose beads slurry resuspended in Lysis Buffer into the sample (prepared from step 5). Incubate it at 4°C with rotating for 1 hr.
- 7) Centrifuge the tube at 2,000 x g for 2 minutes at 4°C and transfer the supernatant to another tube (precleared sample).
- 8) Mix 20 μL of 50% protein G agarose beads slurry resuspended in PBS with normal rabbit IgG (RIP-Assay Kit) or anti-NONO pAb at the amount of suggested in the **APPLICATIONS**, then add 1 mL of Lysis Buffer into each tube. Incubate with gentle agitation for 1 hr. at 4°C.
- 9) Wash the beads once with 500 μL of ice-cold Lysis Buffer (centrifuge the tube at 2,000 x g for 1 min.). Carefully discard the supernatant using a pipette or without disturbing the beads.
- 10) Add 500 μL of nuclear extract (the sample from step 7), then incubate with gentle agitation for 3 hr. at 4°C.
- 11) Wash the beads 4 times with Wash Buffer (centrifuge the tube at 2,000 x g for 1 min.).
- 12) Resuspend the beads in 20 μL of Laemmli's sample buffer, boil for 3 min., and centrifuge for 5 min. Use 20 μL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (12.5% acrylamide) for electrophoresis.
- 13) Blot the protein to a polyvinylidene difluoride (PVDF) membrane at 1 mA/cm² for 1 hr. in a semi-dry transfer system (Transfer Buffer: 25 mM Tris, 190 mM glycine, 20% MeOH). See the manufacturer's manual for precise transfer procedure.
- 14) To reduce nonspecific binding, soak the membrane in 5% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature, or overnight at 4°C.
- 15) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
- 16) Incubate the membrane with primary antibody diluted with 1% skimmed milk (in PBS, pH 7.2) as suggested in the **APPLICATIONS** for 1 hr. at room temperature. (The concentration of antibody will depend on the conditions.)
- 17) Wash the membrane with PBS-T (10 min. x 3 times).
- 18) Incubate the membrane with the 1:1,000 Rabbit TrueBlot® anti-Rabbit IgG-HRP (eBioscience; code no. 18-8816-33) diluted with 1% skimmed milk (in PBS, pH 7.2) for 1 hr. at room temperature.
- 19) Wash the membrane with PBS-T (10 min. x 3 times).
- 20) Wipe excess buffer on the membrane, then incubate it with appropriate chemiluminescence reagent for 1 min. Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 21) Expose to an X-ray film in a dark room for 3 min. Develop the film as usual. The condition for exposure and development may vary.

(Positive control for Immunoprecipitation; 293T nuclear extract)



Immunoprecipitation of NONO from 293T

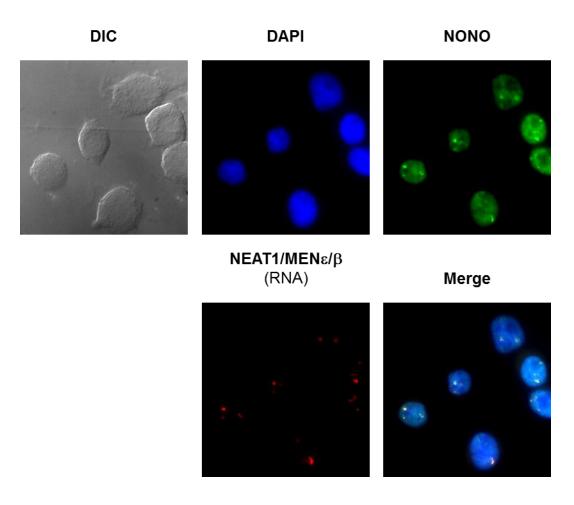
Lane 1: Input

Lane 1: IP with normal rabbit IgG

Lane 2: IP with RN092PW

Immunoblotted with RN092PW

<u>Immunocytochemistry (Under evaluation)</u>



Immunocytochemical detection of NONO from HeLa

