

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



RiboCluster Profiler™

RBP Antibody

Anti-NSUN2 (Human) pAb

CODE No. RN127PW

CLONALITY Polyclonal

ISOTYPE Rabbit Ig, affinity purified

QUANTITY 100 μL, 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

<u>Western blotting</u> 1:1,000 for chemiluminescence detection system Immunoprecipitation $5 \mu L/500 \mu L$ of cell extract from 1×10^7 cells/sample

SPECIES CROSS REACTIVITY on WB

Species	Human*	Mouse	Rat	Hamster
Cells	HeLa, HEK293T, K562	NIH/3T3, WR19L	Rat1	СНО
Reactivity	+	-	-	-

^{*}This antibody shows weak reactivity with Jurkat cells.

Entrez Gene ID 54888 (Human)

For more information, please visit our web site http://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, JP patent No. 5,002,105) 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

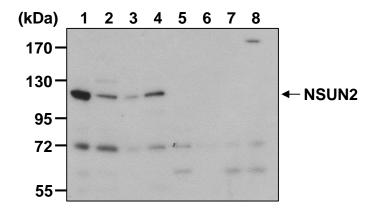


DEL ARED DE ODIAGRA		RN068PW	Anti-PPP1R8 pAb
	PRODUCTS		Anti-RBM14 pAb
RIP-Assay K			Anti-SMN1 pAb
RN1001	RIP-Assay Kit	RN078PW	1
RN1005	RIP-Assay Kit for microRNA	RN079PW	1
		RN080PW	· · · · · · · · · · · · · · · · · · ·
RIP-Certified		RN081PW	· · · · · · · · · · · · · · · · · · ·
RN001P	Anti-EIF4E pAb	RN082PW	
RN002P	Anti-EIF4G1 (Human) pAb	RN084PW	· · · · · · · · · · · · · · · · · · ·
RN003P	Anti-EIF4G2 pAb	RN085PW	Anti-U2AF1 pAb
RN004P	Anti-ELAVL1 (HuR) pAb	RN086PW	
RN005P	Anti-ELAVL2 (HuB) (Human) pAb	RN087PW	Anti-ALYREF (THOC4) pAb
RN006P	Anti-ELAVL3 (HuC) pAb	RN088PW	Anti-NXF1 (TAP) pAb
RN007P	Anti-IGF2BP1 (IMP1) pAb	RN089PW	Anti-MAGOH pAb
RN008P RN009P	Anti-IGF2BP2 (IMP2) pAb	RN090PW	Anti-DDX21 pAb
RN010P	Anti-IGF2BP3 (IMP3) pAb Anti-MSI1 (Musashi1) pAb	RN091PW	*
RN010P RN011P	Anti-PTBP1 (Human) pAb	RN092PW	· / •
RN011P RN012P	Anti-STAU1 (Human) pAb	RN093PW	•
RN0121 RN013P	Anti-STAU2 (Human) pAb	RN094PW	*
RN015P	Anti-YBX1 pAb	RN095PW	•
RN019P	Anti-HNRNPK pAb	RN096PW	<u>*</u>
RN020P	Anti-ILF3 (Human) pAb	RN097PW	<u>*</u>
RN021P	Anti-KHDRBS1 pAb	RN098PW	•
RN022P	Anti-PABPC4 pAb	RN099PW	<u> </u>
RN024P	Anti-PCBP1 pAb		Anti-EXOSC5 (RRP46) (Human) pAb
RN025P	Anti-PCBP2 pAb		Anti-FBL (Fibrillarin) pAb
RN026P	Anti-PUM1 pAb		Anti-GEMIN2 (Human) pAb
RN027P	Anti-PUM2 pAb	RN103PW	, , <u>, ,</u>
RN028P	Anti-EIF2C1 (AGO1) pAb	RN104PW	· · · · · · · · · · · · · · · · · · ·
RN032P	Anti-CIRBP pAb	RN105PW RN106PW	•
RN033P	Anti-TNRC6A (GW182) (Human) pAb	RN100FW	- · · · · · · ·
RN037P	Anti-AUH pAb	RN108PW	· · · · · · · · · · · · · · · · · · ·
RN038P	Anti-CPEB1 pAb	RN109PW	
RN041P	Anti-KHDRBS2 (SLM1) pAb	RN110PW	` / I
RN045P	Anti-SLBP pAb	RN111PW	, , <u>, , , , , , , , , , , , , , , , , </u>
RN001M	Anti-IGF2BP1 (IMP1) mAb (6H6)	RN112PW	Anti-DCP1B (Human) pAb
RN003M	Anti-EIF2C2 (AGO2) (Human) mAb (1B1-E2H5)	RN113PW	Anti-DHX36 (RHAU) pAb
RN004M	Anti-Ribosomal P0/P1/P2 mAb (9D5)		Anti-HNRNPA1 pAb
RN005M	Anti-EIF2C2 (AGO2) mAb (2A8) Anti-EIF4E mAb (C107-3-5)	RN115PW	Anti-LIN28B (Human) pAb
RN006M RN007M	Anti-ELAVL1 (HuR) mAb (C67-1)	RN116PW	, , <u>, , , , , , , , , , , , , , , , , </u>
RN007M RN009M	Anti-PABPC1 mAb (10E10)	RN117PW	
RN011M	Anti-2,2,7-trimethylguanosine (m ₃ G/TMG) mAb	RN118PW	
KNOTIVI	(C1-36)	RN119PW	, , , , , , , , , , , , , , , , , , ,
	(C1-30)	RN120PW	` ' ' 1
RBP Antibo	dy	RN121PW	
RN008MW Anti-ELAVL1 (HuR) mAb (C54-6)		RN122PW	
	Anti-PIWIL1 (MIWI) mAb (2D9)	RN123PW	
	Anti-PABPN1 pAb	RN124PW	
	Anti-PTBP2 pAb	RN125PW	*
	Anti-GRSF1 pAb	RN126PW	
	Anti-HDLBP (Vigilin) pAb	RN127PW	
	Anti-HNRNPC pAb	RN128PW	
	Anti-PCBP3 pAb	RN129PW RN130PW	· • • • • • • • • • • • • • • • • • • •
	Anti-HNRNPD (AUF1) pAb	MANIONEM	Aliu-Trivitota (Hulliali) pau
	Anti-HNRNPA0 pAb	D346-3	Anti-5-methylcytidine (m ⁵ C) mAb (FMC-9)
	Anti-DHX9 pAb	レッサいつ	1 metry cytomic (iii C) iiiAU (1 WiC-9)
RN064PW	-		
RN065PW	Anti-KHSRP pAb	For the late	st information of RiboCluster Profiler TM ,
RN067PW	Anti-PPP1R10 pAb		our website at http://ruo.mbl.co.jp/je/rip-assay/
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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 (10% 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) 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 of Anti-IgG (Rabbit) pAb-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 settings. The condition for exposure and development may vary.

(Positive controls for Western blotting; HeLa, HEK293T and K562)



Western blot analysis of human NSUN2

Lane 1: HeLa

Lane 2: HEK293T

Lane 3: Jurkat

Lane 4: K562

Lane 5: NIH/3T3

Lane 6: WR19L

Lane 7: Rat1

Lane 8: CHO

Immunoblotted with Anti-NSUN2 (Human) pAb (RN127PW)

Immunoprecipitation

- 1) Wash 1 x 10⁷ cells 4 times with PBS and resuspend them with 1 mL of ice-cold Lysis Buffer (+) (MBL; code no. RN1001) containing appropriate protease inhibitors and DTT. Vortex thoroughly, then incubate on ice for 10 min.
- 2) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and transfer the supernatant to another tube.
- 3) Add 20 µL of 50% protein G agarose beads slurry resuspended in ice-cold Wash Buffer (+) (MBL; code no. RN1001) containing DTT at the appropriate concentration into the supernatant. Incubate it at 4°C with rotating for 1 hr.
- 4) Centrifuge the tube at 2,000 x g for 1 min. at 4°C and transfer the supernatant to another tube (precleared sample).
- 5) Mix 20 μL of 50% protein G agarose beads slurry resuspended in 1 mL of ice-cold Wash Buffer (+) with Normal Rabbit IgG (RIP-Assay Kit) or Anti-NSUN2 (Human) pAb (MBL; code no. RN127PW) as suggested in the **APPLICATIONS**. Incubate at 4°C with rotating for 1 hr.
- 6) Wash the beads 1 time with ice-cold Lysis Buffer (+). Carefully discard the supernatant.
- 7) Add 1 mL of the precleared sample (prepared in step 4)) to the tube containing antibody conjugated beads, then incubate with gentle agitation for 2 hr. at 4°C.
- 8) Wash the bead pellet 4 times with 500 µL of ice-cold Wash Buffer (+).
- 9) Resuspend the bead pellet in 20 μ L of Laemmli's sample buffer, boil for 3 min. and centrifuge.
- 10) Load 10 µL of the sample per lane in a 1-mm-thick SDS-polyacrylamide gel (10% acrylamide) for electrophoresis.
- 11) 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.
- 12) To reduce nonspecific binding, soak the membrane in 5% skimmed milk (in PBS, pH 7.2) overnight at 4°C.
- 13) Wash the membrane with PBS-T [0.05% Tween-20 in PBS] (5 min. x 3 times).
- 14) 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.)
- 15) Wash the membrane with PBS-T (10 min. x 3 times).
- 16) Incubate the membrane with 1:1,000 of 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.
- 17) Wash the membrane with PBS-T (10 min. x 3 times).
- 18) Wipe excess buffer on the membrane, then incubate it with appropriate chemiluminescence reagent for 1 min.
- 19) Remove extra reagent from the membrane by dabbing with paper towel, and seal it in plastic wrap.
- 20) 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; HeLa)

