

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



RiboCluster Profiler™

RBP Antibody

Anti-HNRNPA1 pAb

CODE No. RN114PW

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

Western blotting 1:1,000 for chemiluminescence detection system

Immunoprecipitation $5 \mu L/500 \mu L$ of nuclear or whole cell extract from 1 x 10^7 cells/sample

SPECIES CROSS REACTIVITY on WB

Species	Human	Mouse	Rat	Hamster
Cells	HeLa, HEK293T, Jurkat*, K562	NIH/3T3	Rat1	СНО
Reactivity	+	+	+	+ (weak)

^{*}very weak reactivity

Entrez Gene ID 3178 (Human), 15382 (Mouse), 29578 (Rat), 100769923 (Hamster)

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

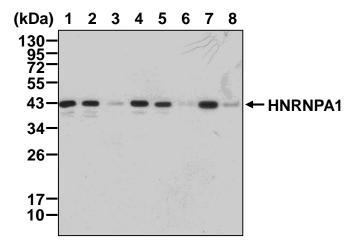


		DNO54DW	Anti DCDD2 nAh
RELATED PRODUCTS		RN054PW	Anti-PCBP3 pAb Anti-TARBP1 pAb
RIP-Assay Kit		RN058PW	•
RN1001	RIP-Assay Kit	RN059PW	•
RN1005	RIP-Assay Kit for microRNA	RN060PW	*
		RN061PW	` ' L
RIP-Certified Antibody		RN062PW	<u>*</u>
RN001P	Anti-EIF4E pAb	RN063PW	1
RN002P	Anti-EIF4G1 pAb	RN064PW	
RN003P	Anti-EIF4G2 pAb	RN065PW	· · · · · · · · · · · · · · · · · · ·
RN004P	Anti-ELAVL1 (HuR) pAb	RN069PW	
RN005P	Anti-ELAVL2 (HuB) pAb	RN077PW	Anti-SMN1 pAb
RN006P RN007P	Anti-ELAVL3 (HuC) pAb	RN078PW	
RN007F RN008P	Anti-IGF2BP1 (IMP1) pAb Anti-IGF2BP2 (IMP2) pAb	RN079PW	` ' *
RN009P	Anti-IGF2BF3 (IMF3) pAb	RN080PW	· • · •
RN011P	Anti-PTBP1 pAb	RN081PW	` 1 / 1
RN0111 RN012P	Anti-STAU1 pAb	RN082PW	, , , ,
RN013P	Anti-STAU2 pAb	RN084PW	, , , <u>,</u>
RN014P	Anti-TIA1 pAb	RN085PW	±
RN015P	Anti-YBX1 pAb	RN086PW	*
RN016P	Anti-FMR1 pAb	RN087PW	, ,
RN017P	Anti-FXR1 pAb	RN088PW	` * * * * * * * * * * * * * * * * * * *
RN018P	Anti-FXR2 pAb	RN089PW	1
RN019P	Anti-HNRNPK pAb	RN090PW	*
RN020P	Anti-ILF3 pAb	RN091PW	•
RN021P	Anti-KHDRBS1 pAb	RN092PW	, , <u>,</u>
RN022P	Anti-PABPC4 pAb	RN093PW	•
RN024P	Anti-PCBP1 pAb	RN094PW	*
RN025P	Anti-PCBP2 pAb	RN095PW RN096PW	*
RN026P	Anti-PUM1 pAb		<u> -</u>
RN027P	Anti-PUM2 pAb	RN097PW RN098PW	•
RN028P	Anti-EIF2C1 (AGO1) pAb	RN099PW	
RN032P	Anti-CIRBP pAb	RN100PW	
RN033P	Anti-TNRC6A (GW182) pAb	RN101PW	
RN037P	Anti-AUH pAb	RN102PW	·
RN038P	Anti-CPEB1 pAb	RN103PW	` / I
RN041P	Anti-KHDRBS2 (SLM1) pAb		Anti-PAN2 (USP52) (Human) pAb
RN045P	Anti-SLBP pAb	RN105PW	Anti-PARN pAb
RN001M	Anti-IGF2BP1 (IMP1) mAb (6H6)	RN106PW	1
RN003M	Anti-EIF2C2 (AGO2) mAb (1B1-E2H5)	RN107PW	
RN004M	Anti-Ribosomal P0/P1/P2 mAb (9D5)	RN108PW	
RN005M	Anti-EIF2C2 (AGO2) mAb (2A8)	RN109PW	Anti-XRN1 (Human) pAb
RN006M	Anti-EIF4E mAb (C107-3-5)	RN110PW	Anti-CNOT7 (CAF1) pAb
RN007M	Anti-ELAVL1 (HuR) mAb (C67-1) Anti-PABPC1 mAb (10E10)	RN111PW	Anti-ETF1 (eRF1) pAb
RN009M	Alu-PABPCI IIIA0 (10E10)	RN112PW	Anti-DCP1B (Human) pAb
RBP Antibod	37	RN113PW	` / L
	Anti-ELAVL1 (HuR) mAb (C54-6)	RN114PW	-
	Anti-PIWIL1 (MIWI) mAb (2D9)	RN115PW	, , , , , , , , , , , , , , , , , , ,
	Anti-PABPN1 pAb	RN116PW	, , , <u>,</u>
	Anti-DICER1 pAb	RN117PW	Anti-CCAR2 (DBC1) pAb
	Anti-ZFP36 (TTP) pAb	DD 000	
	Anti-SYNCRIP (HNRNPQ) pAb	PD009	Anti-rck (p54) pAb
	Anti-PTBP2 pAb	D216-3	Anti-hnRNP A1/B2 mAb (C20308)
	Anti-G3BP1 pAb	PM064	Anti-Lamin B1 pAb
	Anti-G3BP2 pAb	PM001	Anti-PML (Human) pAb
RN050PW	*	M041-3	Anti-PML (Human) mAb (1B9)
RN051PW	-	K0196-3	Anti-PML (Mouse) mAb (36-1-104)
RN052PW	Anti-HNRNPC pAb	For the leter	st information of RiboCluster Profiler TM ,
RN053PW	Anti-PAIP1 pAb		our website at http://ruo.mbl.co.jp/je/rip-assay/
		produce visit	The medical intermediation of the medical property 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) 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, Jurkat, K562, NIH/3T3, Rat1 and CHO)



Western blot analysis of HNRNPA1

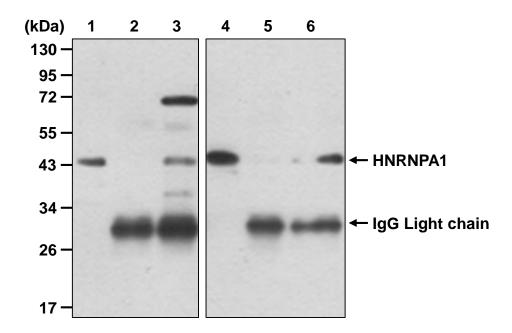
Lane 1: HeLa Lane 2: HEK293T Lane 3: **Jurkat** Lane 4: K562 Lane 5: NIH/3T3 WR19L Lane 6: Lane 7: Rat1 Lane 8: CHO

Immunoblotted with Anti-HNRNPA1 pAb (RN114PW)

Immunoprecipitation

- 1) Wash 2 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 5-10 min.
- 2) Centrifuge the tube at 12,000 x g for 5 min. at 4°C and transfer the supernatant to another tube (total cell extract). If you don't need nuclear extract, please skip to step 6)
- 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 tube.
- 5) Add 500 µL of ice-cold Lysis Buffer into the supernatant. Mix well by pipetting up and down (nuclear extract).
- 6) Add 20 μL of 50% protein A agarose beads slurry resuspended in ice-cold Lysis Buffer (+) into the total cell extract and/or nuclear extract. Incubate it at 4°C with rotating for 1 hr.
- 7) Centrifuge the tube at 2,000 x g for 2 min. at 4°C and transfer the supernatant to another tube (precleared sample).
- 8) Mix 20 μL of 50% protein A agarose beads slurry resuspended in 1 mL of ice-cold Wash Buffer (+) (MBL; code no. RN1001) containing DTT at the appropriate concentration with Normal Rabbit IgG (RIP-Assay Kit) or Anti-HNRNPA1 pAb (MBL; code no. RN114PW) as suggested in the **APPLICATIONS**. Incubate at 4°C with rotating for 1 hr.
- 9) Wash the beads 1 time with ice-cold Lysis Buffer (+). Carefully discard the supernatant.
- 10) Add 500 μ L of the precleared sample (prepared in step 7)) to the tube containing antibody conjugated beads, then incubate with gentle agitation for 2 hr. at 4°C.
- 11) Wash the beads 4 times with 500 µL of ice-cold Wash Buffer (+).
- 12) Resuspend the beads in 20 μL of Laemmli's sample buffer, boil for 3 min. and centrifuge. Use 10 μL/lane for the SDS-PAGE analysis. (See <u>SDS-PAGE & Western blotting</u>.) For 2nd antibody reaction, use 1:1,000 of True blot[®]: Anti-Rabbit IgG HRP (Rockland Immunochemicals; code no. 18-8816-31).

(Positive control for Immunoprecipitation; HEK293T)



Immunoprecipitation of HNRNPA1 from HEK293T cells

Lane 1-3: Total cell extract Lane 4-6: Nuclear extract

Lane 1. 4: Input

Lane 2, 5: Normal Rabbit IgG

Lane 3, 6: Anti-HNRNPA1 pAb (RN114PW)

Immunoblotted with RN114PW

