

Anti-Lin28A Antibody [JE60-36]

HA722899



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, FC, IP
Molecular Wt:	Predicted band size: 23 kDa
Clone number:	JE60-36

Description: LIN28A is conserved, developmentally regulated RNA binding proteins that inhibit the processing and maturation of the let-7 family of miRNAs. LIN28A is localized to the perienodoplasmic reticulum (ER) area and inhibits translation of mRNAs that are destined for the ER, reducing the synthesis of transmembrane proteins, ER or Golgi lumen proteins, and secretory proteins. Overexpression of LIN28A, in conjunction with Oct-4, Sox2, and Nanog, can reprogram human fibroblasts to pluripotent, ES-like cells.

Immunogen: Synthetic peptide within human Lin28A aa 160-209 / 209.

Positive control: NCCIT cell lysate, JAR cell lysate, NCCIT.

Subcellular location: Cytoplasm, Nucleus.

Database links: SwissProt: Q9H9Z2 Human

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:500
FC	1:1,000
IP	1-2µg/sample

Storage Buffer: PBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of Lin28A on different lysates with Rabbit anti-Lin28A antibody (HA722899) at 1/1,000 dilution.

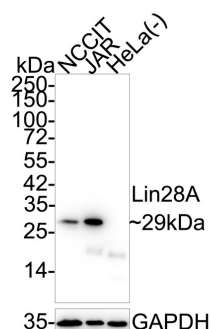
Lane 1: NCCIT cell lysate
Lane 2: JAR cell lysate
Lane 3: HeLa cell lysate (negative)

Lysates/proteins at 20 µg/Lane.

Predicted band size: 23 kDa
Observed band size: 29 kDa

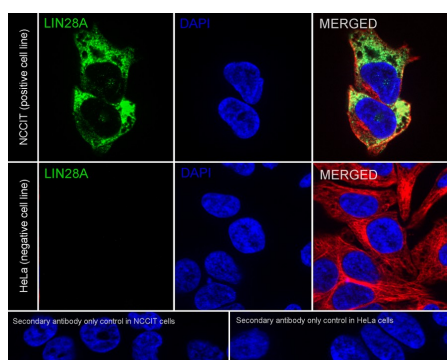
Exposure time: 4 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722899) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of NCCIT (positive) and HeLa (negative) labeling Lin28A with Rabbit anti-Lin28A antibody (HA722899) at 1/500 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Lin28A antibody (HA722899) at 1/500 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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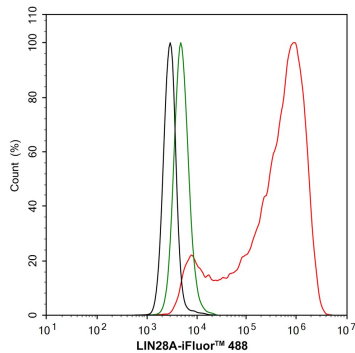


Fig3: Flow cytometric analysis of NCCIT cells labeling Lin28A.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA722899, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

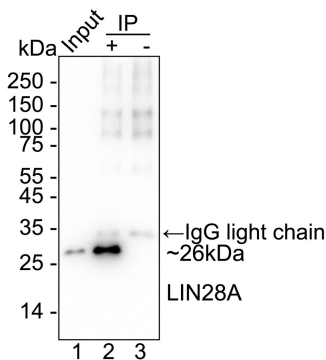


Fig4: Lin28A was immunoprecipitated from 0.2 mg JAR cell lysate with HA722899 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA722899 at 1/1,000 dilution. Anti-Rabbit IgG for IP Nano-secondary antibody (NBI01H) at 1/5,000 dilution was used for 1 hour at room temperature.

Lane 1: JAR cell lysate (input)
Lane 2: HA722899 IP in JAR cell lysate
Lane 3: Rabbit IgG instead of HA722899 in JAR cell lysate

Blocking/Dilution buffer: 5% NFDM/TBST
Exposure time: 6 seconds; ECL: K1801

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Oyejobi GK et al. Regulating Protein-RNA Interactions: Advances in Targeting the LIN28/Let-7 Pathway. Int J Mol Sci. 2024 Mar.

2. Zhou F et al. Circular RNA circ_0096041 promotes osteosarcoma cell proliferation and migration via sponging miR-556-5p and regulating LIN28A expression. Cell Mol Biol (Noisy-le-grand). 2024 Feb.