

# Anti-Lin28B Antibody [A2-4-5]

## M1312-1



<b>Product Type:</b>	Mouse monoclonal IgG2a, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IF-Cell, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 27 kDa
<b>Clone number:</b>	A2-4-5

**Description:** LIN28 is thought to regulate the self-renewal of stem cells. In nematodes, the LIN28 homolog lin-28 is a heterochronic gene that determines the onset of early larval stages of developmental events in *Caenorhabditis elegans*, by regulating the self-renewal of nematode stem cells in the skin (called seam cells) and vulva (called VPCs) during development. In mice, LIN28 is highly expressed in mouse embryonic stem cells and during early embryogenesis. It acts as a suppressor of microRNA (miRNA) biogenesis by specifically binding the precursor let-7 (pre-let-7), a miRNA precursor. Lin28B is high expression in testis, fetal liver, placenta and in hepatocellular carcinoma (HCC).

**Immunogen:** Recombinant protein within Human Lin28B aa 73-250 / 250.

**Positive control:** JAR cell lysate, NCCIT, human placenta tissue.

**Subcellular location:** Cytoplasm, nucleus

**Database links:** SwissProt: Q6ZLN17 Human

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100-1:200
<b>IHC-P</b>	1:1,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% 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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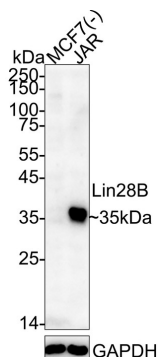
Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

## Images

**Fig1:** Western blot analysis of Lin28B on different lysates with Mouse anti-Lin28B antibody (M1312-1) at 1/1,000 dilution.

Lane 1: MCF7 cell lysate (negative)

Lane 2: JAR cell lysate



Lysates/proteins at 20 µg/Lane.

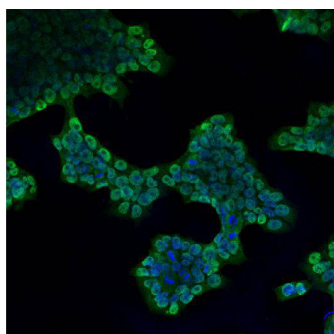
Predicted band size: 27 kDa

Observed band size: 35 kDa

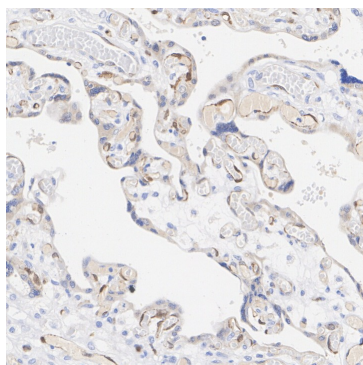
Exposure time: 3 minutes; ECL: K1802;

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 (M1312-1) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** ICC staining Lin28B in NCCIT cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS. and counterstained with DAPI in order to highlight the nucleus (blue).



**Fig3:** Immunohistochemical analysis of paraffin-embedded human placenta tissue with Mouse anti-Lin28B antibody (M1312-1) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (M1312-1) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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

### Background References

1. "TUT4 in concert with Lin28 suppresses MicroRNA biogenesis through pre-microRNA uridylation." Heo I., Joo C., Kim Y.-K., Ha M., Yoon M.-J., Cho J., Yeom K.-H., Han J., Kim V.N. Cell 138:696-708(2009)
2. "Lin28 promotes transformation and is associated with advanced human malignancies." Viswanathan S.R., Powers J.T., Einhorn W., Hoshida Y., Ng T.L., Toffanin S., O'Sullivan M., Lu J., Phillips L.A., Lockhart V.L., Shah S.P., Tanwar P.S., Mermel C.H., Beroukhi R., Azam M., Teixeira J., Meyerson M., Hughes T.P. Daley G.Q. Nat. Genet. 41:843-848(2009)
3. "The Lin28 cold-shock domain remodels pre-let-7 microRNA." Mayr F., Schutz A., Doge N., Heinemann U. Nucleic Acids Res. 40:7492-7506(2012)

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