

KD-Validated Anti-Lin-28 Homolog B Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1999**Specification****KD-Validated Anti-Lin-28 Homolog B Mouse Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q6ZN17
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Calculated MW	Predicted, 27 kDa, observed, 32 kDa kDa
Gene Name	LIN28B
Aliases	LIN28B; Lin-28 Homolog B; CSDD2; Protein Lin-28 Homolog B; FLJ16517; Lin-28B; Lin-28 Homolog B (C. Elegans); Lin-28.2
Immunogen	Recombinant protein of human LIN28B

KD-Validated Anti-Lin-28 Homolog B Mouse Monoclonal Antibody - Additional Information

Gene ID	389421
Other Names	
Protein lin-28 homolog B, Lin-28B, LIN28B, CSDD2	

KD-Validated Anti-Lin-28 Homolog B Mouse Monoclonal Antibody - Protein Information**Name** LIN28B**Synonyms** CSDD2**Function**

Suppressor of microRNA (miRNA) biogenesis, including that of let-7 and possibly of miR107, miR-143 and miR-200c. Binds primary let-7 transcripts (pri-let-7), including pri-let-7g and pri-let-7a-1, and sequester them in the nucleolus, away from the microprocessor complex, hence preventing their processing into mature miRNA (PubMed:22118463). Does not act on pri-miR21 (PubMed:22118463). The repression of let-7 expression is required for normal development and contributes to maintain the pluripotent state of embryonic stem cells by preventing let-7-mediated differentiation. When overexpressed, recruits ZCCHC11/TUT4 uridylyltransferase to pre-let-7 transcripts, leading to their terminal uridylation and degradation (PubMed:19703396). This activity might not be relevant in vivo, as LIN28B-mediated inhibition of let-7 miRNA maturation appears to be ZCCHC11-independent (PubMed:22118463). Interaction with target pre-miRNAs occurs via an 5'- GGAG-3' motif in the pre-miRNA terminal loop. Mediates MYC-induced let- 7 repression (By similarity). When overexpressed, isoform 1 stimulates growth of

the breast adenocarcinoma cell line MCF-7. Isoform 2 has no effect on cell growth.

Cellular Location

Nucleus. Nucleus, nucleolus. Cytoplasm Note=Predominantly nucleolar (PubMed:22118463). In Huh7 cells, predominantly cytoplasmic, with only a subset of cells exhibiting strong nuclear staining; however, the specificity of the polyclonal antibody used in these experiments has not been not documented (PubMed:16971064).

Tissue Location

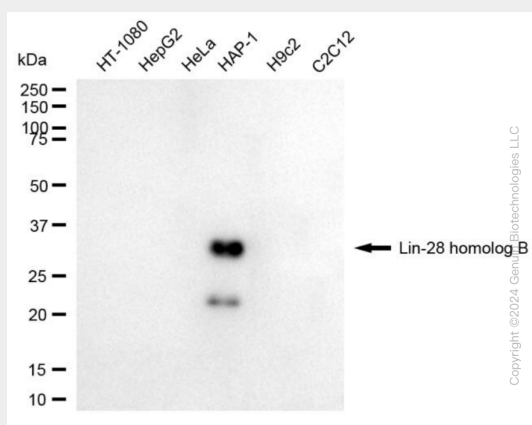
Expressed at high levels in the placenta and, at much lower, in testis and fetal liver (PubMed:16971064). Isoform 1 is only detected in placenta and in moderately and poorly differentiated hepatocellular carcinoma cells (at protein level). Isoform 2 is detected in fetal liver, non-tumor liver tissues, as well as well- differentiated tumor tissues (at protein level). Tends to be up- regulated in triple-negative (ER-,PR-,HER2-) breast tumors, as well as in liver, ovarian, and thyroid carcinomas (PubMed:22118463)

KD-Validated Anti-Lin-28 Homolog B Mouse Monoclonal Antibody - Protocols

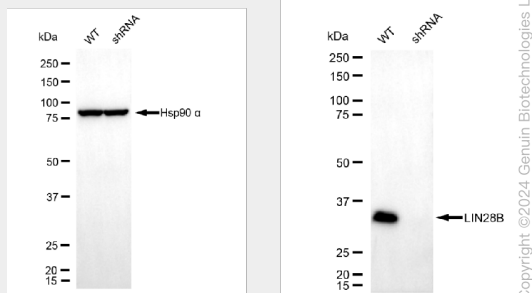
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

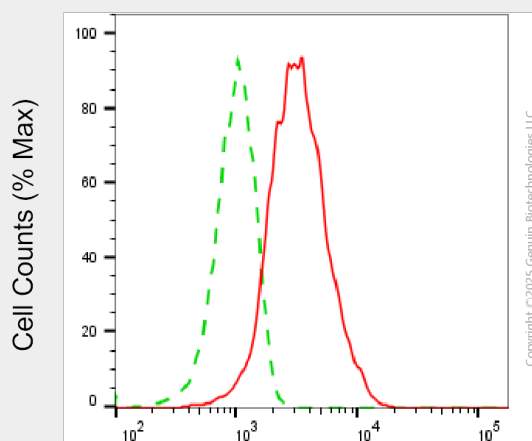
KD-Validated Anti-Lin-28 Homolog B Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-lin-28 homolog B antibody (Cat#AGI1999). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-lin-28 homolog B antibody (Cat#AGI1999, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

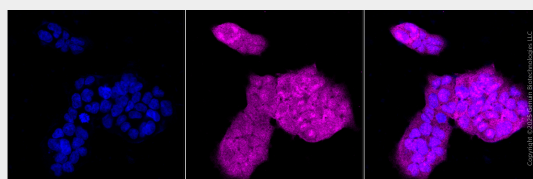


Western blotting analysis using anti-lin-28 homolog B antibody (Cat#AGI1999). Lin-28 homolog B expression in wild-type (WT) and lin-28 homolog B (LIN28B) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-lin-28 homolog B antibody (Cat#AGI1999, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Lin-28 homolog B-Alexa Fluor® 647

Flow cytometric analysis of Lin-28 homolog B expression in HAP-1 cells using anti-Lin-28 homolog B antibody (Cat#AGI1999, 1:2,000). Green, isotype control; red, Lin-28 homolog B.



Immunocytochemical staining of HAP1 cells with anti-Lin-28 homolog B antibody (Cat#AGI1999, 1:1,000). Nuclei were stained blue with DAPI; Lin-28 homolog B was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.