

LIN28B Antibody

Catalog No: #21626

Package Size: #21626-1 50ul #21626-2 100ul

Description

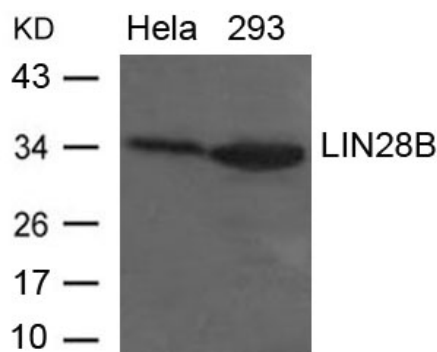
Product Name	LIN28B Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total LIN28B protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.242~246(P-S-V-Q-K) derived from Human LIN28B
Conjugates	Unconjugated
Target Name	LIN28B
Other Names	CSDD2; FLJ16517;
Accession No.	Swiss-Prot: Q6ZN17NCBI Protein: NP_001004317.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 21 32kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from HeLa and 293 cells using LIN28B Antibody #21626.

Background

Acts as a suppressor of microRNA (miRNA) biogenesis by specifically binding the precursor let-7 (pre-let-7), a miRNA precursor. Acts by binding pre-let-7 and recruiting ZCCHC11/TUT4 uridylyltransferase, leading to the terminal uridylation of pre-let-7. Uridylated pre-let-7 miRNAs fail to be processed by Dicer and undergo degradation. Specifically recognizes the 5'-GGAG-3' motif in the terminal loop of pre-let-7. Also recognizes and binds non pre-let-7 pre-miRNAs that contain the 5'-GGAG-3' motif in the terminal loop, leading to their terminal uridylation and subsequent degradation.

Mediates MYC-mediated let-7 repression. Isoform 1, when overexpressed, stimulates growth of the breast adenocarcinoma cell line MCF-7. Isoform 2 has no effect on cell growth. "Identification and characterization of lin-28 homolog B (LIN28B) in human hepatocellular carcinoma."

Guo Y., Chen Y., Ito H., et al. Gene 384:51-61(2006) "Lin28 mediates the terminal uridylation of let-7 precursor MicroRNA."

Heo I., Joo C., Cho J., Ha M., Han J., Kim V.N. Mol. Cell 32:276-284(2008) "TUT4 in concert with Lin28 suppresses MicroRNA biogenesis through pre-microRNA uridylation."

Heo I., Joo C., Kim Y.-K., Kim V.N., et al. Cell 138:696-708(2009)

Published Papers

et al., Mouse bone marrow mesenchymal stem cells with distinct p53 statuses display differential characteristics. In Mol Med Rep on 2020 May;21 by

Wang B, Wang L, et al..PMID: 32186775, , (2020)

[PMID:32186775](#)

et al., Exosomes derived from human mesenchymal stem cells promote gastric cancer cell growth and migration via the activation of the Akt pathway. In Mol Med Rep. On 2016 Oct by Gu H, Ji R et al..PMID:27513187, , (2016)

[PMID:27513187](#)

et al., The KRAS/Lin28B axis maintains stemness of pancreatic cancer cells via the leti ?i/TET3 pathway. In Mol Oncol on 2021 Jan by Yawen Liu, Dawei Wang, et al..PMID:33107691, , (2021)

[PMID:33107691](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.