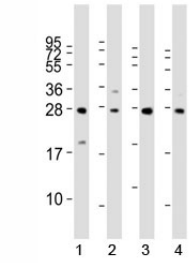
LIN28B Antibody (F44237)

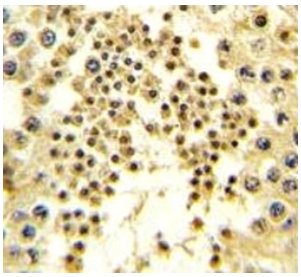
Catalog No.	Formulation	Size
F44237-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F44237-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

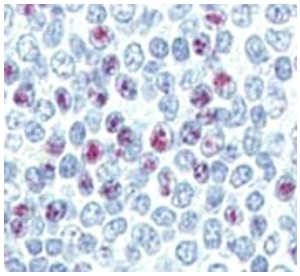
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q6ZN17
Applications	Western blot: 1:1000 IHC (Paraffin): 1:10-1:50 Flow Cytometry: 1:10-1:50 Immunofluorescence: 1:10-1:50
Limitations	This LIN28B antibody is available for research use only.



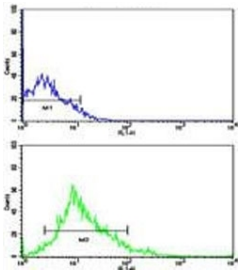
Western blot analysis of LIN28B antibody and 1) HeLa, 2) K562, 3) mouse testis and 4) NCCIT lysate. Predicted molecular weight ~27 kDa.



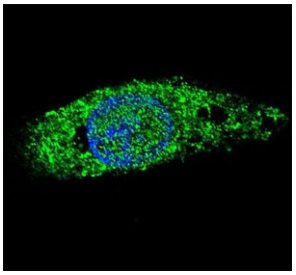
IHC analysis of FFPE human testis tissue stained with LIN28B antibody



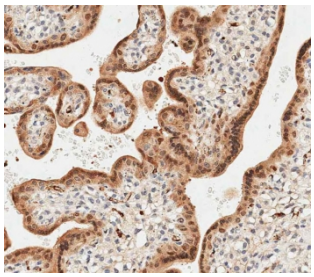
IHC analysis of FFPE human spleen tissue stained with LIN28B antibody



Flow cytometric analysis of HL-60 cells using LIN28B antibody (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.



Confocal immunofluorescent analysis of LIN28B antibody and HepG2 cells with Alexa Fluor 488-conjugated secondary (green). DAPI was used to stain the cell nuclear (blue).



IHC analysis of FFPE human placental tissue stained with LIN28B antibody. HIER: boil tissue sections in pH 9 EDTA for 20 min and allow to cool before testing.

Description

LIN28B is a 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. Does not act on pri-miR21. 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. This activity might not be relevant in vivo, as LIN28B-mediated inhibition of let-7 miRNA maturation appears to be ZCCHC11-independent. 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). [UniProt]

Application Notes

Titration of the LIN28B antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 95-128 from the human protein was used as the immunogen for this LIN28B antibody.

Storage

Aliquot the LIN28B antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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