abcam

ab175352

Anti-Lin28A antibody

20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 0.1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Recombinant Full Length Protein corresponding to Human LIN28A. Database link Q9H9Z2
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/100
Notes	ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/20 - 1/50
Notes	-

Species	Human
Dilution info	1/20 - 1/50
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1/100 - 1/200
Notes	-

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information LIN28A

Function

RNA-binding protein that inhibits processing of pre-let-7 miRNAs and regulates translation of mRNAs that control developmental timing, pluripotency and metabolism (PubMed:21247876). Seems to recognize a common structural G-quartet (G4) feature in its miRNA and mRNA targets (Probable). 'Translational enhancer' that drives specific mRNAs to polysomes and increases the efficiency of protein synthesis. Its association with the translational machinery and target mRNAs results in an increased number of initiation events per molecule of mRNA and, indirectly, in mRNA stabilization. Binds IGF2 mRNA, MYOD1 mRNA, ARBP/36B4 ribosomal protein mRNA and its own mRNA. Essential for skeletal muscle differentiation program through the translational up-regulation of IGF2 expression. Suppressor of microRNA (miRNA) biogenesis, including that of let-7, miR107, miR-143 and miR-200c. Specifically binds the miRNA precursors (pre-miRNAs), recognizing an 5'-GGAG-3' motif found in pre-miRNA terminal loop, and recruits TUT4 and TUT7 uridylyltransferases (PubMed:18951094, PubMed:19703396, PubMed:22118463, PubMed:22898984). This results in the

terminal uridylation of target pre-miRNAs (PubMed:18951094, PubMed:19703396, PubMed:22118463, PubMed:22898984). Uridylated pre-miRNAs fail to be processed by Dicer and undergo degradation. The repression of let-7 expression is required for normal development and contributes to maintain the pluripotent state by preventing let-7-mediated differentiation of embryonic stem cells (PubMed:18951094, PubMed:19703396, PubMed:22118463, PubMed:22898984). Localized to the periendoplasmic reticulum area, binds to a large number of spliced mRNAs and inhibits the translation of mRNAs destined for the ER, reducing the synthesis of transmembrane proteins, ER or Golgi lumen proteins, and secretory proteins. Binds to and enhances the translation of mRNAs for several metabolic enzymes, such as PFKP, PDHA1 or SDHA, increasing glycolysis and oxidative phosphorylation. Which, with the let-7 repression may enhance tissue repair in adult tissue (By similarity).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

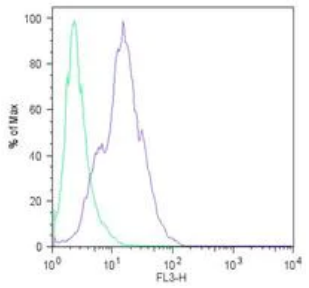
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

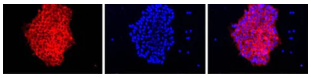
11 product images



Flow Cytometry - Anti-Lin28A antibody (ab175352)

Lin28A Flow Cytometry staining using rabbit Anti-Lin28A antibody

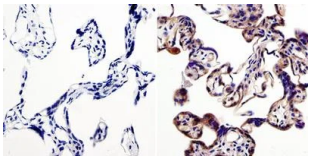
Flow Cytometrical analysis of H9 embryonic stem cells labeling Lin28A with ab175352 at 1/100 (right histogram) compared to rabbit IgGl (left histogram) and incubated with a fluorescently-conjugated secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Lin28A antibody (ab175352)

Lin28A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Lin28A antibody

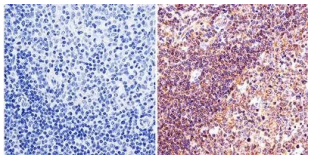
Immunofluorescent analysis of HEL 11.4 induced IPS cells labeling Lin28A with ab175352 at 1/200 and incubated with a fluorescently-conjugated secondary antibody. Nuclei (blue) were stained with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lin28A antibody (ab175352)

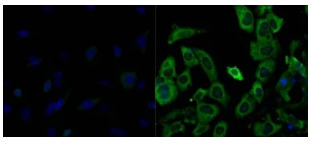
Lin28A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Lin28A antibody

Immunohistochemical analysis of paraffin embedded Human placenta tissue labeling Lin28A with ab175352 at 1/50.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lin28A antibody (ab175352)

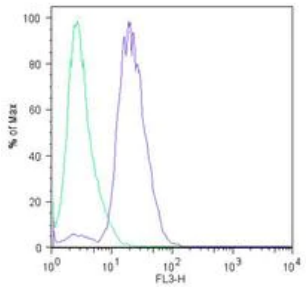
Immunohistochemical analysis of paraffin embedded Human tonsil tissue labeling Lin28A with ab175352 at 1/50.



Immunocytochemistry/ Immunofluorescence - Anti-Lin28A antibody (ab175352)

Lin28A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Lin28A antibody

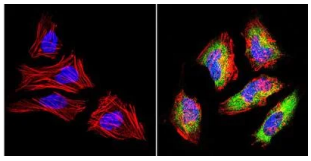
Immunofluorescent analysis of formalin-fixed and permeabilized HeLa cells (left image) and Human embryonal carcinoma NTERA-2 cells (right image) labeling Lin28A with ab175352 at 1/200 and and incubated with DyLight 488 goat-anti-rabbit IgG secondary antibody. Nuclei (blue) were stained with Hoechst 33342 dye.



Flow Cytometry - Anti-Lin28A antibody (ab175352)

Lin28A Flow Cytometry staining using rabbit Anti-Lin28A antibody

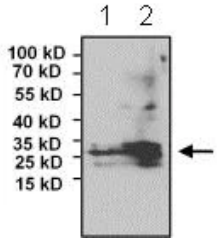
Flow Cytometrical analysis of HEL 11.4 induced IPS cells labeling Lin28A with ab175352 at 1/100 (right histogram) compared to rabbit IgGl (left histogram) and incubated with a fluorescently-conjugated secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Lin28A antibody (ab175352)

Lin28A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Lin28A antibody

Immunofluorescent analysis of formalin-fixed and permeabilized HeLa cells labeling Lin28A with ab175352 at 1/100 and incubated with a DyLight-conjugated secondary antibody. F-actin (red) was stained with a fluorescent phalloidin and nuclei (blue) were stained with DAPI.

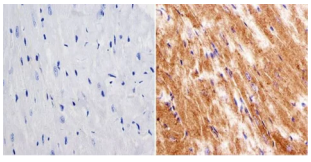


Immunoprecipitation - Anti-Lin28A antibody (ab175352)

Lane 2: Immunoprecipitation. ab175352 at 1/1000 labeling Lin28A immunoprecipitated from 750 µg of NCCIT whole cell lysate using ab175352 at 3µg.
All lanes:
Immunoprecipitation - Anti-Lin28A antibody (ab175352) at 1/1000 dilution

All lanes:
NCCIT whole cell lysate

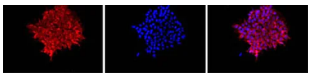
Predicted band size: 23 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Lin28A antibody (ab175352)

Lin28A Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Lin28A antibody

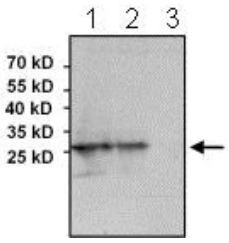
Paraffin embedded mouse heart tissue stained for Lin28A using ab175352 at 1/20 dilution in immunohistochemical analysis. DAB staining buffer was applied and tissues were counterstained with hematoxylin.



Immunocytochemistry/ Immunofluorescence - Anti-Lin28A antibody (ab175352)

Lin28A Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-Lin28A antibody

Immunofluorescent analysis of fH9 embryonic stem cells labeling Lin28A with ab175352 at 1/200 and incubated with a fluorescently-conjugated secondary antibody. Nuclei (blue) were stained with DAPI.



Western blot - Anti-Lin28A antibody (ab175352)

All lanes:
Western blot - Anti-Lin28A antibody (ab175352) at 1/1000 dilution

Lane 1:
NCCIT whole cell lysate at 75 µg

Lane 2:
NTERA-2 whole cell lysate at 75 µg

Lane 3:
HeLa whole cell lysate at 75 µg

Secondary

All lanes:
goat anti-rabbit-HRP secondary antibody at 1/20000 dilution

Predicted band size: 23 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.