

For Research Use Only

# LIN28A Polyclonal antibody

Catalog Number: 11724-1-AP

Featured Product

57 Publications



## Basic Information

### Catalog Number:

11724-1-AP

### Concentration:

700 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2312

### GenBank Accession Number:

BC028566

### GeneID (NCBI):

79727

### UNIPROT ID:

Q9H9Z2

### Full Name:

lin-28 homolog (C. elegans)

### Calculated MW:

209 aa, 23 kDa

### Observed MW:

28 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:8000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

IF/ICC: 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, RIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, canine

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: K-562 cells, NCCIT cells, mouse embryo tissue

IP: K-562 cells,

IHC: mouse testis tissue,

IF/ICC: human embryonic stem cells,

## Background Information

LIN28 is one of the four key human factors (OCT4, SOX2, NANOG and LIN28) used to reprogram human fibroblasts to an embryonic stem (ES) cell-like state known as the induced pluripotent stem (Ips) cell [PMID: 20139967]. LIN28 is a marker of undifferentiated human embryonic stem cells and a cytoplasmic mRNA-binding protein that binds to and enhances the translation of the IGF2 mRNA [PMID: 21057460]. LIN28 has also been shown to bind to the let-7 pre-miRNA and block production of the mature let-7 microRNA in mouse embryonic stem cells [PMID: 22078496]. Affinity purified rabbit anti-LIN28 can be used to demonstrate pluripotency of ES and Ips cells, and to detect LIN28 transgene expression in the process of reprogramming. This antibody is a rabbit polyclonal antibody raised against full length LIN28 of human origin. The calculated molecular weight of LIN28 is 23 kDa, but the modified LIN28 is about 28 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rong Yue Teng	24098084	Onco Targets Ther	IHC
André M Faria	25200669	Clin Endocrinol (Oxf)	IHC
Xiaoming Zhang	24139802	Cell Rep	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

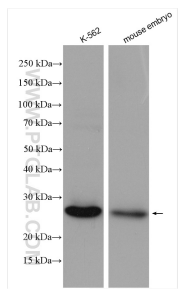
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

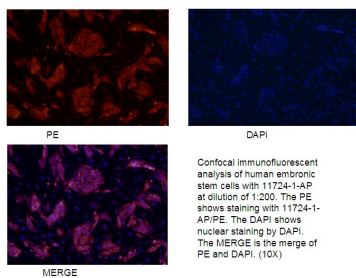
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

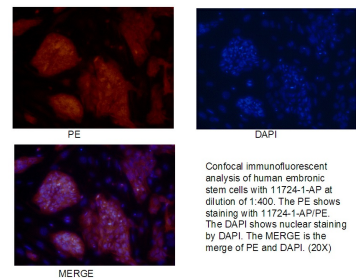
Selected Validation Data



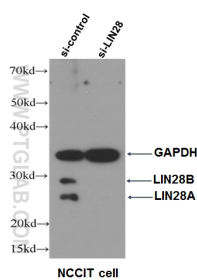
Various lysate were subjected to SDS PAGE followed by western blot with 11724-1-AP (LIN28 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



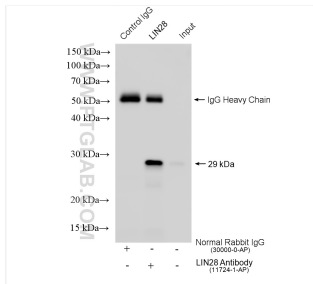
Confocal immunofluorescent analysis of human embryonic stem cells with 11724-1-AP at dilution of 1:200. The PE shows staining with 11724-1-AP/PE. The DAPI shows nuclear staining by DAPI. The MERGE is the merge of PE and DAPI. (10X).



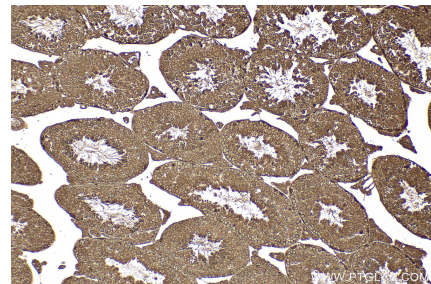
Confocal immunofluorescent analysis of human embryonic stem cells with 11724-1-AP at dilution of 1:400. The PE shows staining with 11724-1-AP/PE. The DAPI shows nuclear staining by DAPI. The MERGE is the merge of PE and DAPI. (20X).



WB data of LIN28 antibody (11724-1-AP, 1:500) with si-control and si-LIN28 transfected NCCIT cells.



IP result of anti-LIN28 (IP:11724-1-AP, 4ug; Detection:11724-1-AP 1:2000) with K-562 cells lysate 1360 ug.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 11724-1-AP (LIN28 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).