

# LIN28

## Polyclonal ANTIBODY

Catalog Number: 11724-1-AP

Featured Product

36 Publications

### Basic Information

**Catalog Number:**  
11724-1-AP

**Size:**  
47 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG2312

**GenBank Accession Number:**  
BC028566

**GeneID (NCBI):**  
79727

**Full Name:**  
lin-28 homolog (C. elegans)

**Calculated MW:**  
209aa, 23 kDa

**Observed MW:**  
28 kDa

**Recommended Dilutions:**

WB 1:200-1:1000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:50-1:200

IF 1:20-1:200

### Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, IP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

dog, human, mouse

**Positive Controls:**

WB : NCCIT cell; K-562 cells, mouse embryo tissue, s

IP : K-562 cells;

IHC : human prostate cancer tissue;

IF : human embryonic stem cells;

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

### 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 [PMD: 20139967]. Lin28 is a marker of undifferentiated human embryonic stem cells and a cytoplasmic RNA-binding protein that binds to and enhances the translation of the IGF2 mRNA [PMD: 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 [PMD: 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
Xaoming Zhang	24139802	Cell Rep	WB

### Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

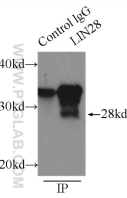
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

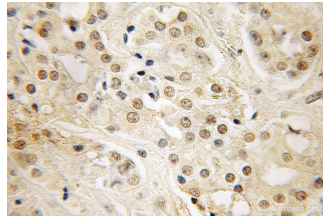
E: proteintech@ptglab.com  
W: ptglab.com

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

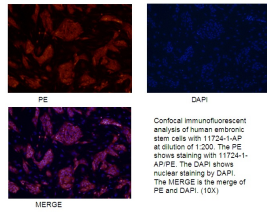
Selected Validation Data



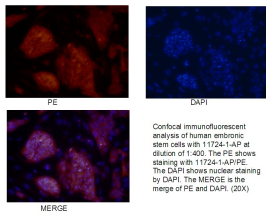
IP Result of anti-LIN28 (IP:11724-1-AP, 3ug; Detection:11724-1-AP 1:500) with K-562 cells lysate 1000ug.



Immunohistochemical of paraffin-embedded human prostate cancer using 11724-1-AP(LIN28 antibody) at dilution of 1:50 (under 40x lens)



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)



NCCIT cell were subjected to SDS PAGE followed by western blot with 11724-1-AP( LIN28 Antibody ) at dilution of 1:300 incubated at room temperature for 1.5 hours