

For Research Use Only

LIN28 Polyclonal ANTIBODY



Catalog Number: 11724-1-AP

Featured Product

37 Publications

Basic Information

Catalog Number:

11724-1-AP

Size:

150UL, Concentration: 313 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2312

GenBank Accession Number:

BC028566

GeneID (NCBI):

79727

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 1:200-1:1000

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

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

IP: K-562 cells,

IHC: human prostate cancer tissue,

IF: 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 Mna-binding protein that binds to and enhances the translation of the IGF2 Mna [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 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

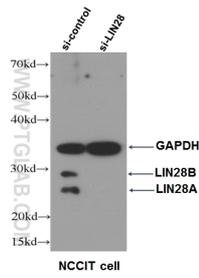
For technical support and original validation data for this product please contact:

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

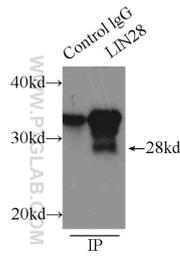
E: proteintech@ptglab.com
W: ptglab.com

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

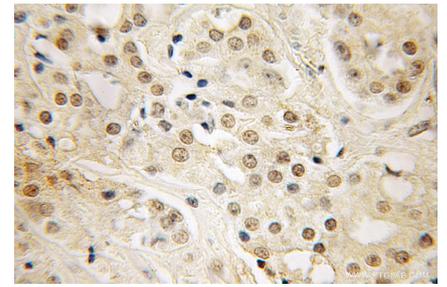
Selected Validation Data



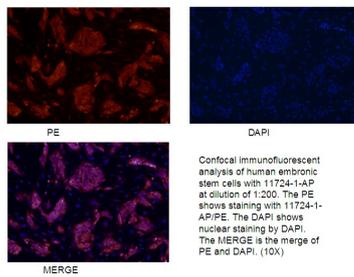
WB data of LIN28 antibody (11724-1-AP, 1:500) with si-control and si-LIN28 transfected NCCIT cells.



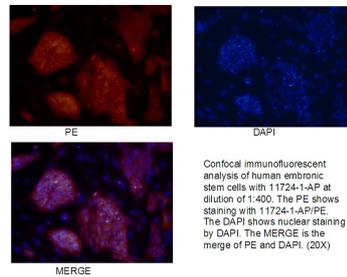
IP Result of anti-LIN28 (IP:11724-1-AP, 3ug; Detection:11724-1-AP 1:500) with K-562 cells lysate 1000ug.



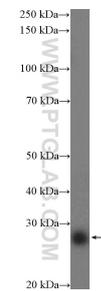
Immunohistochemical analysis of paraffin-embedded human prostate cancer using 11724-1-AP (LIN28 antibody) at dilution of 1:50 (under 40x lens).



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.