For Research Use Only

LIN28 Polyclonal antibody

Catalog Number:11724-1-AP Featured Product 49 Publications

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Basic Information

Catalog Number:
11724-1-AP

Size:
700 μg/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 1:50-1:200
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:
human, rat, mouse, 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 : human prostate cancer tissue,

IF : human embronic 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.

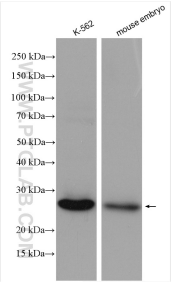
Notable Publications

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

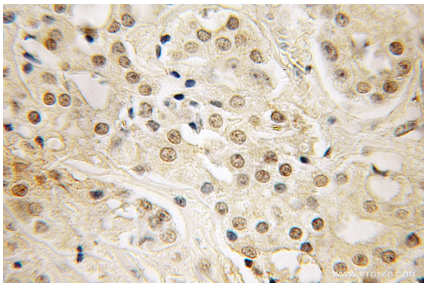
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

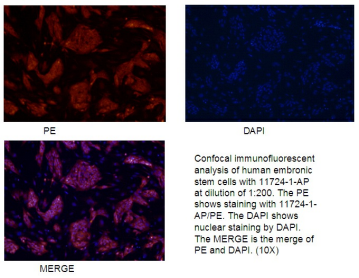
Selected Validation Data



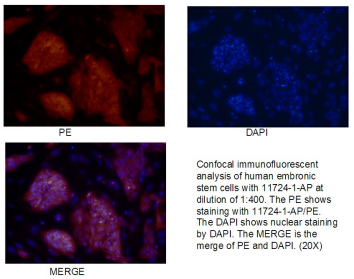
Various lysate were subjected to SDS PAGE followed by western blot with 11724-1-AP (LIN28 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



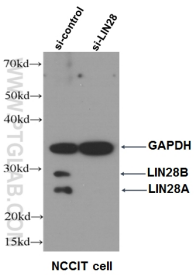
Immunohistochemical analysis of paraffin-embedded human prostate cancer using 11724-1-AP (LIN28 antibody) at dilution of 1:50 (under 40x lens).



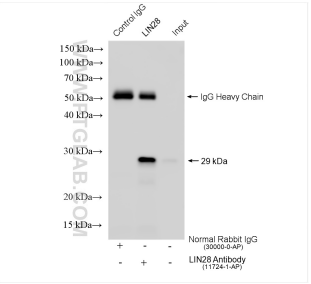
Confocal immunofluorescent analysis of human embronic stem cells with 11724-1-AP at dilution of 1:200. The PE shows staining with 11724-1-AP/PE. The DAPI shows nuclear staining by DAPI. The MERGE is the merge of PE and DAPI. (10X).



Confocal immunofluorescent analysis of human embronic 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.