

For Research Use Only

# Lin28A-specific Polyclonal antibody



Catalog Number: 16177-1-AP

Featured Product

10 Publications

## Basic Information

**Catalog Number:**

16177-1-AP

**Size:**

253 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_024674

**GeneID (NCBI):**

79727

**UNIPROT ID:**

Q9H9Z2

**Full Name:**

lin-28 homolog (C. elegans)

**Calculated MW:**

23 kDa

**Observed MW:**

28 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:200-1:1000

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Positive Controls:**

**WB:** hESC cells, human brain tissue, human heart tissue, NCCIT cell, mouse liver tissue

**IHC:** human small intestine tissue, human ovary tissue, human heart tissue, human testis tissue, human spleen tissue, human lung tissue, human brain tissue

**Note-IHC:** 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. 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. 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. 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 a peptide mapping within human LIN28. This antibody recognizes Lin28A specifically.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kelvin Pieknell	34556809	Cell Death Differ	WB
Xinxin Si	36382664	Pharmacology	IHC
Yang Liu	33200449	FASEB J	WB,IF

## 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

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

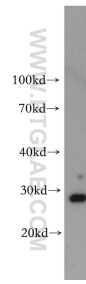
T: 4006900926

E: Proteintech-CN@ptglab.com

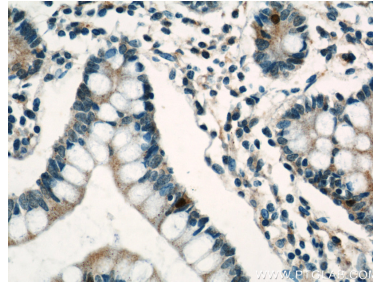
W: ptgcn.com

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## Selected Validation Data



hESC cells were subjected to SDS PAGE followed by western blot with 16177-1-AP (Lin28A-specific antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human small intestine using 16177-1-AP (Lin28A-specific antibody) at dilution of 1:50 (under 40x lens).