For Research Use Only

# LMX1B Polyclonal antibody

Catalog Number:18278-1-AP Featured Product 7 Publications

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## Basic Information

Catalog Number:
18278-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13096

GenBank Accession Number:
BC112120

GeneID (NCBI):
4010

UNIPROT ID:
O60663

Full Name:
LIM homeobox transcription factor 1, beta

Calculated MW:
372 aa, 42 kDa

Observed MW:
42-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:6000
IF 1:20-1:200

## Applications

Tested Applications:
WB, IF, ELISA

Cited Applications:
WB, IP, IF, IHC, ChIP

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Positive Controls:

WB : HeLa cells,

IF : embryonic kidney tissue,

## Background Information

LMX1B, LIM homeodomain factor 1b, functions as a transcription factor, and is essential for the normal development of dorsal limb structures, the glomerular basement membrane, the anterior segment of the eye, and dopaminergic and serotonergic neurons. Lmx1b is a continuously expressed, terminal selector-type factor in 5-HT neurons. It is required for maintenance of central serotonergic neurons (PMID: 17151281, PMID: 14602809). It is expressed in brain, testis, skeletal muscle, and pancreatic islets (PMID: 35417751, PMID: 18512225).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Zi-Yang Zhang | 32606037 | Sci Signal | IHC |
| Chunbao Zang | 31545286 | Biomed Pharmacother | WB |
| Petros Stathakos | 32286126 | Autophagy | |

## Storage

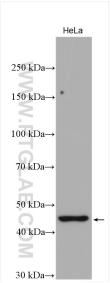
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

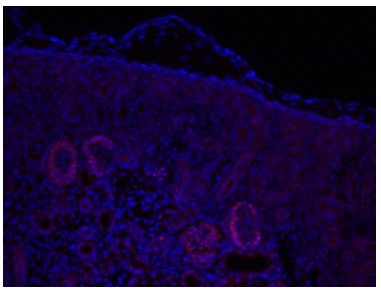
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

## Selected Validation Data




HeLa cells were subjected to SDS PAGE followed by western blot with 18278-1-AP (LMX1B antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IF result of anti-LMX1B (18278-1-AP ,1:900) with embryonic kidney by Dr. Joo-Seop Park. Red: Podocytes, anti-rabbit Alexa555; Blue: Hoechst.