

For Research Use Only

# CUX1 Polyclonal antibody, PBS Only

Catalog Number: 11733-1-PBS

Featured Product



## Basic Information

**Catalog Number:**

11733-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2335

**GenBank Accession Number:**

BC025422

**GeneID (NCBI):**

1523

**UNIPROT ID:**

Q13948

**Full Name:**

cut-like homeobox 1

**Calculated MW:**

676 aa, 77 kDa

**Observed MW:**

80 kDa

**Purification Method:**

Antigen affinity purification

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, Indirect ELISA

**Species Specificity:**

human, mouse, rat

## Background Information

CUX1 is a transcription factor that regulates a large number of genes and microRNAs involved in multiple cellular processes, such as DNA replication, progression into S phase and later, the spindle assembly checkpoint that controls progression through mitosis. Cux1, a marker of supragranular layers. CUX1 acts by preventing binding of positively-acting CCAAT factors to promoters to mediate its gene repression. Also it's a component of nf-munr repressor, and binds to the matrix attachment regions (MARs) (5' and 3') of the immunoglobulin heavy chain enhancer. It can represses T-cell receptor (TCR) beta enhancer function by binding to MARbeta, an ATC-rich DNA sequence located upstream of the TCR beta enhancer. CUX1 protein containing three cut repeats and a homeodomain called p200, there are several truncated isoforms that have been identified. These isoforms include a testis-specific isoform containing one cut repeat and the homeodomain called p55. In situ hybridization showed that mRNA for p55 was most abundant in round spermatids. Additional isoforms include p75, a protein similar in structure to p55, derived from the use of an alternate promoter in intron 20; the cut alternately spliced protein (CASp), a Golgi protein that contains amino-terminal sequences but none of the cut repeats or homeodomains; and several other isoforms (p80, p90, p110, and p150) that appear to arise via proteolytic processing. This antibody can recognize full-length p200 Cux1 and CASp protein (70-80kDa).

## Storage

**Storage:**

Store at -80°C.

**Storage Buffer:**

PBS only, pH7.3

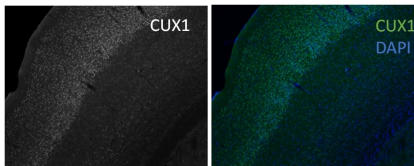
For technical support and original validation data for this product please contact:

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

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

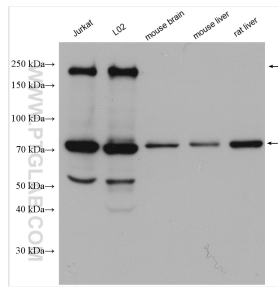
## Selected Validation Data



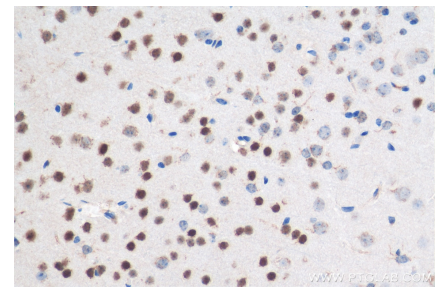
### Adult mouse Cortex 10x

Formalin-fixed. CUX-1 used at 1:300 dilution overnight in TBS buffer, 5% NDS, 1% BSA, .25% Triton-X  
Donkey anti Rabbit 488 used at 1:500 for 2 hours

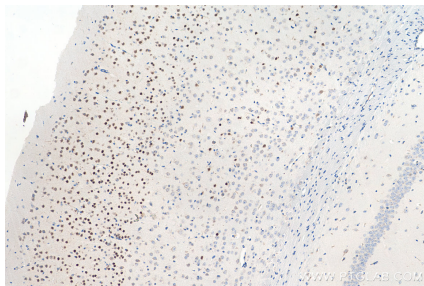
IF result of the antibody CUX1 (11733-1-AP, 1:300) with mouse cortex, Data from Dr. Lee O. Vaasjo Muñoz, University of Chicago. This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



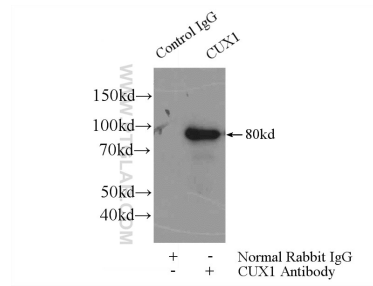
Various lysates were subjected to SDS PAGE followed by western blot with 11733-1-AP (CUX1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



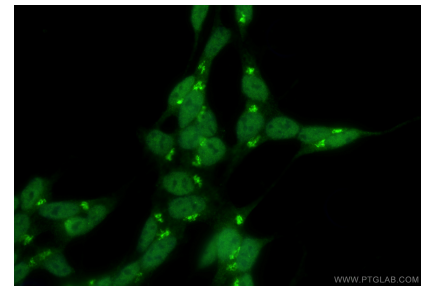
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11733-1-AP (CUX1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11733-1-AP (CUX1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



IP result of anti-CUX1 (IP:11733-1-AP, 4ug; Detection:11733-1-AP 1:1000) with mouse brain tissue lysate 4000ug. This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using CUX1 antibody (11733-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.