

For Research Use Only

CUX1 Polyclonal antibody, PBS Only

Catalog Number: 11733-1-PBS

Featured Product



Basic Information

Catalog Number:

11733-1-PBS

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 repress 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.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only, pH7.3

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

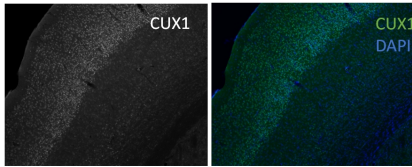
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

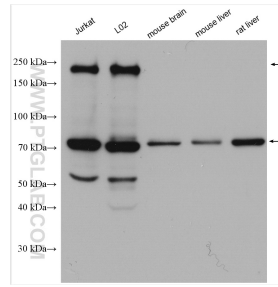
Selected Validation Data



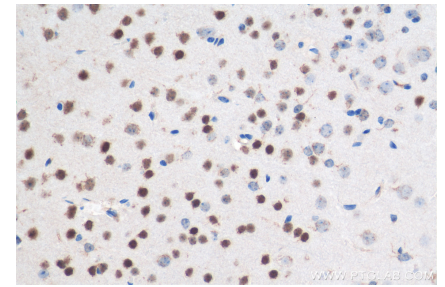
Adult mouse Cortex 10x

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

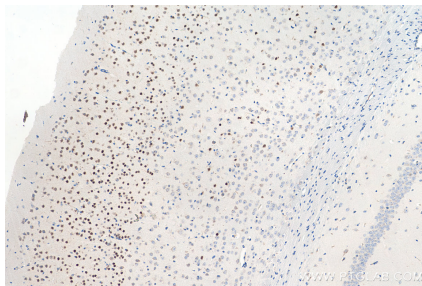
IF result of the antibody CUX1 (11733-1-AP, 1:300) with mouse cortex, Data from Dr. Lee O. Vaasjo Muñoz, University of Chicago. This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



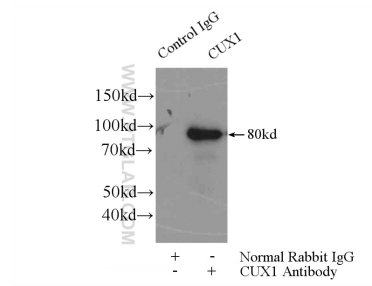
Various lysates were subjected to SDS PAGE followed by western blot with 11733-1-AP (CUX1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 11733-1-PBS in a different storage buffer formulation.



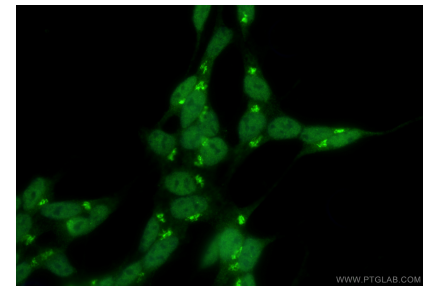
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11733-1-AP (CUX1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 11733-1-PBS in a different storage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