

For Research Use Only

CUX1 Monoclonal antibody

Catalog Number: 68449-1-Ig



Basic Information

Catalog Number: 68449-1-Ig	GenBank Accession Number: BC025422	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1523	CloneNo.: 1B9D1
Source: Mouse	Full Name: cut-like homeobox 1	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG2a	Calculated MW: 676 aa, 77 kDa	
Immunogen Catalog Number: AG28528	Observed MW: 80, 200 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : U2OS cells, A549 cells, LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells
Species Specificity: Human, mouse, rat	

Background Information

CUX1 is a transcription factors 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 mediated 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 recognizes full-length p200 Cux1 and CASP protein (70-80kDa).

Storage

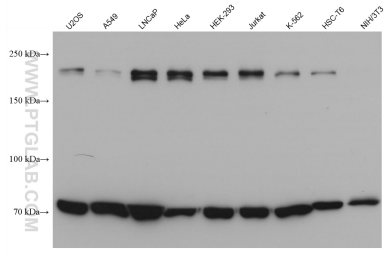
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68449-1-Ig (CUX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.