

For Research Use Only

CUX1 Monoclonal antibody, PBS Only



Catalog Number: 68449-1-PBS

Basic Information

Catalog Number: 68449-1-PBS	GenBank Accession Number: BC025422	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 1523	CloneNo.: 1B9D1
Source: Mouse	UNIPROT ID: Q13948	
Isotype: IgG2a	Full Name: cut-like homeobox 1	
Immunogen Catalog Number: AG28528	Calculated MW: 676 aa, 77 kDa	
	Observed MW: 80, 200 kDa	

Applications

Tested Applications:
WB, 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 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 (CASPs), 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 -80°C.

Storage Buffer:
PBS only

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

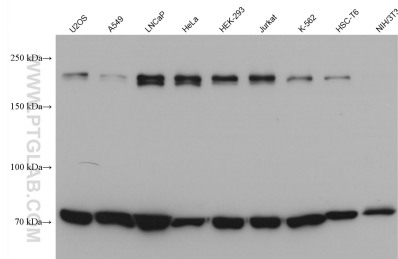
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E: Proteintech-CN@ptglab.com

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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. This data was developed using the same antibody clone with 68449-1-PBS in a different storage buffer formulation.