

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: 1000 µg/ml	GeneID (NCBI): 1523	CloneNo.: 1B9D1
Source: Mouse	UNIPROT ID: Q13948	Recommended Dilutions: WB 1:2000-1:10000
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	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 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 -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

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

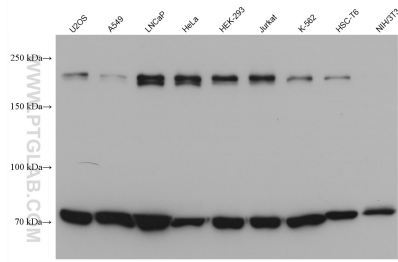
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.