

CUX1 Monoclonal antibody

Catalog Number: 68449-1-Ig

Basic Information

Catalog Number:

68449-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28528

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, 200 kDa

Purification Method:

Protein A purification

CloneNo.:

1B9D1

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, mouse, rat

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

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 -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

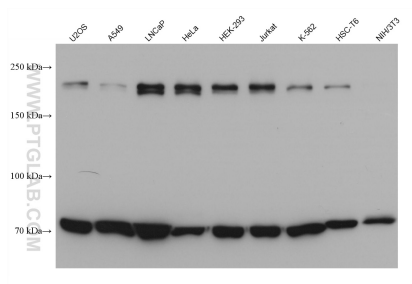
For technical support and original validation data for this product please contact:

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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.