

Protein CASP Rabbit mAb

Catalog # AP76672

Product Information

Application	WB, FC, IP
Primary Accession	Q13948
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	77455

Additional Information

Gene ID	1523
Other Names	CUX1
Dilution	WB~~1:1000 FC~~1:10~50 IP~~N/A
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	CUX1
Synonyms	CUTL1
Function	May be involved in intra-Golgi retrograde transport.
Cellular Location	Golgi apparatus membrane; Single-pass type IV membrane protein

Background

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 represssion. 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).

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