

t(11;12)(q23;q13) (MLL/CIP29)

Clinics and Pathology

Disease M4 acute non lymphocytic leukaemia (ANLL)

Epidemiology only 1 case to date: a 7 mth old boy

Prognosis no data

Cytogenetics

Additional anomalies sole anomaly in this case

Genes involved and Proteins

Gene Name

[MLL](#)

Location 11q23

Dna / Rna 36 exons, spans over 100kb, ORF 12kb.

Protein 3969 amino acids; 431 kDa; contains two DNA binding motifs (a AT hook and a DNA methyltransferase homology motif), trithorax homology domains, zinc finger domains with features of PHD fingers and the C-terminal SET domain.

Gene Name

[CIP29](#)

Location 12q13

Protein 210 amino acids, 29 kDa; contains from N term to C term a SAP domain and 2 nuclear localization domains

Result of the chromosomal anomaly

Hybrid gene

Description

5' MLL - 3' CIP29 including the 9 first exons of MLL, and nearly the entire CIP29

Fusion Protein

Description

The fusion protein includes from N term to C term the AT hooks and the methyltransferase domain of MLL and the SAP domain and the C term nuclear localization domains of CIP29.

External links

Other database [t\(11;12\)\(q23;q13\) \(MLL/CIP29\)](#) [Mitelman database \(CGAP - NCBI\)](#)

Other database [t\(11;12\)\(q23;q13\) \(MLL/CIP29\)](#) [CancerChromosomes \(NCBI\)](#)

To be noted

Additional cases are needed to delineate the epidemiology of this rare entity:

you are welcome to submit a paper to our new [Case Report section](#).

Bibliography

Cloning and characterization of a proliferation-associated cytokine-inducible protein, CIP29.

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Growth inhibitory effect of Hcc-1/CIP29 is associated with induction of apoptosis, not just with G(2)/M arrest.

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Contributor(s)

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Citation

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