Leukaemia Section
Short Communication

t(11;12)(q23;q13) MLL/CIP29
Jean-Loup Huret
Genetics, Dept Medical Information, UMR 8125 CNRS, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France
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Clinics and pathology

Disease
M4 acute non lymphocytic leukaemia (ANLL).

Epidemiology
Only 1 case to date: a 7 months old boy.

Prognosis
No data.

Cytogenetics

Additional anomalies
Sole anomaly in this case.

Genes involved and Proteins

MLL
Location: 11q23
DNA / RNA
36 exons, spans over 100 kb, ORF 12 kb.
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.

CIP29
Location: 12q13
Protein
210 amino acids, 29 kDa; contains from N term to C term a SAP domain and 2 nuclear localization domains.

Results 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.

References

This article should be referenced as such: