t(9;11)(q34;q23) FBP17/MLL

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Identity

Alias
ins(11;9)(q23;q34)inv(11)(q13;q23)

Clinics and pathology

Disease
Acute non lymphocytic leukemia (ANLL)

Phenotype/cell stem origin
One case of M4-ANLL

Epidemiology
Unknown.

Clinics
WBC 35 X 10^9/l.

Prognosis
Poor.

Cytogenetics

Cytogenetics molecular
YAC 13HH4; P1 ICRFP700L11103Q5

Genes involved and proteins

FBP17

Location
9q34

DNA/RNA
At least 2042 bp

Protein
at least 679 amino acids.

MLL

Location: 11q23

DNA/RNA
11910 bp

Protein
3970 amino acids; contains two DNA binding motifs (a AT hook, and Zinc fingers), a DNA methyl transferase motif, a bromodomain; transcriptional regulatory factor; nuclear localisation.

Result of the chromosom al anomaly

Hybrid gene

Description
5'-MLL/FBP17-3'.

Fusion protein

Hybrid transcript MLL/FBP17 contains the following domains: from MLL: AT-hook, DNA-Methyltransferase, Zinc-Fingers; from FBP17:cdc15 homology region, putative rho-binding domain, SH3-domain.
Expression / Localisation
Nuclear.

Oncogenesis
Unknown.

References


This article should be referenced as such: