

# Leukaemia Section

## Short Communication

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

Uta Fuchs, Arndt Borkhardt

Children's University Hospital Giessen, Hematology & Oncology, Feulgenstr. 12, 35392 Giessen, Germany (UF, AB)

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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<sup>9</sup>/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.

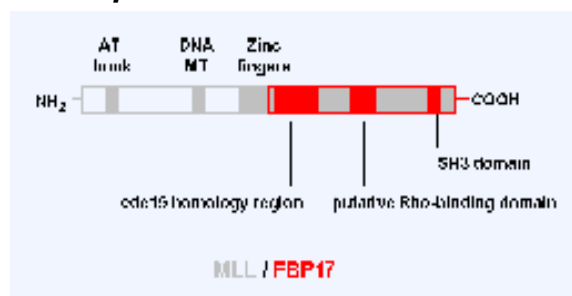
#### Result of the chromosomal anomaly

##### Hybrid gene

##### Description

5'-MLL/FBP17-3'.

##### Fusion protein



##### Description

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

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The human formin-binding protein 17 (FBP17) interacts with sorting nexin, SNX2, and is an MLL-fusion partner in acute myelogeneous leukemia. Proc Natl Acad Sci U S A. 2001 Jul 17;98(15):8756-61

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