t(3;11)(q27;q23) POU2AF1/BCL6

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Clinics and pathology

Disease
Non Hodgkin lymphoma

Clinics
Four cases to date: 3 cases of follicular lymphoma (FL) (Roumier et al., 2000) and one case of peripheral T-cell lymphoma (T-cell NHL) (Schlegelberger et al., 1994). This translocation has been also detected in Karpas 231 cell line (Galiègue-Zouitina et al., 1995; Galiègue-Zouitina et al., 1996). The 3 FL cases were female patients; the T-cell NHL case was a 38-year-old male patient.

Cytogenetics

Cytogenetics morphological
A complex karyotype was found in all the four cases. A t(14;18)(q32;q21) was found in the 3 FL cases, a trisomy 12 in two of these. Other known recurrent abnormalities were: +7, del(6q), del(13q), i(17q), +18, found in one case each.

Genes involved and proteins

Note
The gene rearrangement was determined in Roumier et al., 2000, Galiègue-Zouitina et al., 1995; Galiègue-Zouitina et al., 1996.

POU2AF1
Location
11q23.1
Note
POU2AF1 is also named BOB1 or OBF1.

Protein
B-cell specific transcriptional coactivator; involved in the transcription of immunoglobulin genes. Associates with POU2F1 (OCT1) or POU2F2 (OCT2).

Result of the chromosomal anomaly

Hybrid gene
Description
5’ POU2AF1- 3’ BCL6 and 5’ BCL6 - 3’ POU2AF1, leading to two fusion transcripts; breakpoint in BCL6 intron 1.
**Fusion protein**

**Description**

No fusion protein, but promoter exchange between both partner genes.

**References**


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