Leukaemia Section
Short Communication

**t(14;17)(q32;q21) IGH/IGF2BP1**

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**Abstract**

IGH rearrangements are a common chromosomal abnormality seen in lymphoproliferative disorders, including ALL. Numerous translocation partners of IGH gene have been identified. Here we report a B-ALL case with a t(14;17)(q32;q21) IGH/IGF2BP1.

**Keywords**

IGH partner, t(14;17)(q32;q21), IGF2BP1, acute B lymphoblastic leukemia

**Clinics and pathology**

**Disease**

B-cell acute lymphoblastic leukemia (ALL)

**Phenotype/cell stem origin**

CD10+, CD19+, CD38+, cytoplasmic CD22+ ALL

**Epidemiology**

Only one case, a 16 year old boy (Gu et al., 2014)

**Clinics**

Severe pancytopenia and an elevated lactate dehydrogenase (1048U/L); WBC was 2.7 X 10⁹ with 20% blasts; no central nervous system involvement.

**Cytogenetics**

**Cytogenetics morphological**

An additional copy of the derivative 14 was found

**Genes involved and proteins**

**IGH**

Location

14q32

**IGF2BP1**

Protein

IGF2BP1 is a member of Insulin-like growth factor 2 mRNA-binding protein family; pro-oncogenic RNA-binding; post-transcriptional regulation of gene expression (Bell et al., 2013; Lederer et al., 2014).

**Result of the chromosomal anomaly**

**Hybrid gene**

Description

likely head-to-head fusion of IGF2BP1 with the IGH locus.
**Fusion protein**

**Oncogenesis**
Overexpression of the IGF2BP1 gene.

**References**


This article should be referenced as such: