

## Gene Section

### Short Communication

# RNF213 (ALK lymphoma oligomerization partner on chromosome 17)

Jean-Loup Huret, Sylvie Senon

Genetics, Dept Medical Information, UMR 8125 CNRS, University of Poitiers, CHU Poitiers Hospital, F-86021 Poitiers, France (JLH, SS)

Published in Atlas Database: August 2003

Online updated version: <http://AtlasGeneticsOncology.org/Genes/ALO17ID480.html>  
DOI: 10.4267/2042/38005

This work is licensed under a Creative Commons Attribution-Noncommercial-No Derivative Works 2.0 France Licence.  
© 2003 Atlas of Genetics and Cytogenetics in Oncology and Haematology

## Identity

**Other names:** ALO17 (ALK lymphoma oligomerization partner on chromosome 17); KIAA1618

**HGNC (Hugo):** RNF213

**Location:** 17q25

## DNA/RNA

### Transcription

Alternate splicing; 5185 and 5332 bp cDNA.

## Protein

### Description

1550 and 1599 amino acids if the sequence is complete; putative zinc finger in the N term, and AraC motif in the C term.

## Implicated in

**Anaplastic large cell lymphoma (ALCL) with *t*(2;17)(p23;q25) --> ALK- ALO17**

### Disease

ALCL are high grade non Hodgkin lymphomas; ALK+ ALCL are ALCL where ALK is involved in a fusion gene; ALK+ ALCL represent 50 to 60 % of ALCL cases (they are CD30+, ALK+); belong to the "cytoplasmic ALK+" subset.

### Prognosis

Although presenting as a high grade tumour, a 80% five yr survival is associated with this anomaly.

### Hybrid/Mutated gene

5' ALO17 - 3' ALK

### Abnormal protein

NH2 ALO17 - COOH ALK.

## References

Cools J, Wlodarska I, Somers R, Mentens N, Pedeutour F, Maes B, De Wolf-Peeters C, Pauwels P, Hagemeijer A, Marynen P. Identification of novel fusion partners of ALK, the anaplastic lymphoma kinase, in anaplastic large-cell lymphoma and inflammatory myofibroblastic tumor. *Genes Chromosomes Cancer*. 2002 Aug;34(4):354-62

*This article should be referenced as such:*

Huret JL, Senon S. RNF213 (ALK lymphoma oligomerization partner on chromosome 17). *Atlas Genet Cytogenet Oncol Haematol*. 2003; 7(4):232.