

# Solid Tumour Section

## Short Communication

### t(2;11)(p23;p15)

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## Clinics and pathology

### Disease

Inflammatory myofibroblastic tumors.

### Clinics

Rare soft tissue tumour found in children and young adults.

### Pathology

Spindle cell proliferation with myofibroblastic differentiation and an inflammatory infiltrate.

### Cytogenetics

The translocation was found complex: t(2;11;2)(p23;p15;q31).

### Prognosis

Low malignant potential and good prognosis.

## Genes involved and proteins

### ALK

#### Location

2p23

#### Protein

1620 amino acids; 177 kDa; glycoprotein (200 kDa mature protein); membrane associated tyrosine kinase receptor.

### CARS

#### Location

11p15

#### Protein

748 amino acids, 85 kDa. Forms homodimers.

## Result of the chromosomal anomaly

### Hybrid Gene

#### Description

5' CARS - 3' ALK

### Fusion Protein

#### Description

606 N-term amino acid from CARS fused to the 562 C-term amino acids from ALK (i.e. the entire cytoplasmic portion of ALK with the tyrosine kinase domain).

## References

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