Solid Tumour Section
Short Communication

\[ t(2;11)(p23;p15) \]

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 Clinics and pathology

\textbf{Disease}

Inflammatory myofibroblastic tumors.

\textbf{Clinics}

Rare soft tissue tumour found in children and young adults.

\textbf{Pathology}

Spindle cell proliferation with myofibroblastic differentiation and an inflammatory infiltrate.

\textbf{Cytogenetics}

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

\textbf{Prognosis}

Low malignant potential and good prognosis.

Genes involved and proteins

\textbf{ALK}

\textbf{Location} 2p23

\textbf{Protein} 1620 amino acids; 177 kDa; glycoprotein (200 kDa mature protein); membrane associated tyrosine kinase receptor.

\textbf{CARS}

\textbf{Location} 11p15

\textbf{Protein} 748 amino acids, 85 kDa. Forms homodimers.

Result of the chromosomal anomaly

\textbf{Hybrid Gene}

\textbf{Description}

5' CARS - 3' ALK

\textbf{Fusion Protein}

\textbf{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


This article should be referenced as such: