

# Technology Development Group

### **Request Information**

## **Tcl1 Transgenic Mice**

Tech ID: 20525 / UC Case 2002-274-0

#### BACKGROUND

TCL1 is a protooncogene overexpressed in many mature B cell lymphomas. TCL1 is also expressed in precursor T cells and absent by the CD4+ CD8+ stage of thymocyte development. In B cells, TCL1 is first expressed in pro-B cells, and is completely absent in memory B cells and plasma cells.

Available Technologies

#### INNOVATION

UCLA researchers have developed a murine model in which a TCL1 transgene is overexpressed in both B and T cells. These transgenic mice develop Burkitt-like lymphoma and diffuse large B cell lymphoma at 4 months. This phenotype is accompanied by attendant Bcl-6 expression and mutated JH antibody gene segments. Interestingly, TCL1 is a more powerful initiator of B cell malignancies when compared to the low frequency of T cell malignancies with this model. This is mirrored in humans as >85% of human immune system malignancies are B cell derived.

#### **APPLICATIONS**

- Mouse model for immune system malignancies in B, T and granulocytes cells.
- Mouse model for B-cell selection, development, maturation, antibody production and signaling responses through PI3-kinase pathways.
- ▶ Mouse model for designing therapeutics against B-cell malignancies and preventing autoantibody production in autoimmune diseases.

#### **RELATED MATERIALS**

Dysregulated TCL1 Promotes Multiple Classes of Mature B Cell Lymphoma. Proc Natl Acad Sci U S A. (2002)

#### **OTHER INFORMATION**

To complete a Ready-to-Sign Agreement for this case, please view this document. [PDF]

# Contact Our Team



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#### INVENTORS

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### OTHER INFORMATION

KEYWORDS research tools, mouse model, immunity

#### CATEGORIZED AS

Medical

- Disease: Autoimmune and Inflammation
- Research Tools
- Research Tools
  - Animal Models

**RELATED CASES** 2002-274-0

# Gateway to Innovation, Research and Entrepreneurship

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