# Hs 611.T

305915

## GENERAL INFORMATION

### Description

Hs 611.T is a human classical Hodgkin lymphoma (cHL) cell line established from the lymph node of a 48-year-old Caucasian female. The line is derived from the T-cell-rich nodular sclerosis subtype of Hodgkin lymphoma, one of the most common cHL subtypes. Hs 611.T grows in suspension with lymphoblast-like morphology. Hodgkin lymphoma-derived cell lines are relatively rare owing to the scarcity of the malignant Hodgkin Reed-Sternberg (HRS) cells within the tumor mass; Hs 611.T provides a valuable in vitro model of cHL biology.
Hs 611.T is applicable in Hodgkin lymphoma research including studies of HRS cell signaling, NF-κB pathway activity, JAK-STAT pathway regulation, surface antigen expression (including CD30, CD15, CD25), and responses to Hodgkin lymphoma-targeted therapies such as brentuximab vedotin (anti-CD30 ADC). The line is also used in immunological assays evaluating T cell suppression, cytokine secretion, and the tumor microenvironment interactions characteristic of cHL. As a BSL-2-classified cell line, it requires appropriate containment measures.

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| **Tissue** | Lymph node |
| **Disease** | Hodgkin lymphoma |
| **Metastatic site** | Lymph node |

### Applications

Hodgkin lymphoma research; NF-κB and JAK-STAT pathway studies; CD30/CD15/CD25 expression assays; brentuximab vedotin efficacy studies; tumor microenvironment; immunotherapy research

### Synonyms

- Hs-611-T
- Hs611T
- HS611T

## CLASSIFICATION

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| **Organism** | Human |
| **Sex** | Female |
| **Growth properties** | Suspension |
| **Biosafety level** | 1 |

## CHARACTERISTICS

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| **Morphology** | Lymphoblast-like |
| **Cell type** | B lymphoblast |
| **Doubling time** | approx. 24 to 48 hours |

## IDENTIFIERS

### Citation

Hs 611.T (Cytion catalog number 305915)

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|---|---|
| **NCBI TaxID** | 9606 |

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| | |
|---|---|
| **Cellosaurus** | CVCL_0823 |

## HANDLING AND CULTURE

### Culture medium

DMEM, w: 4.5 g/L Glucose, w: 4 mM L-Glutamine, w: 3.7 g/L NaHCO3, w: 1.0 mM Sodium pyruvate (Cytion article number 820300a)

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| **Incubation atmosphere** | 37°C, 5% $CO_2$, humidified atmosphere. |

### Supplements

Supplement the medium with 10% FBS

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| **Dissociation reagent** | None |

### Subculturing

Dilute the culture to 3–5 × $10^5$ cells/ml with fresh pre-warmed complete medium. Centrifugation (300×g, 5 min) may be used when medium exchange is required. Count viable cells before passaging to maintain optimal density. No enzymatic dissociation is required.

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| **Split ratio** | 1 to 3 |
| **Seeding density** | 2 to 4 x $10^5$ cells/ml |
| **Fluid renewal** | Every 2 to 3 days |

### Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.
Follow the procedure described under Post-Thaw Recovery

## QUALITY CONTROL AND CRYOPRESERVATION

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| **Freeze medium** | As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability. |

### Storage conditions

For long-term preservation, place vials in vapor-phase liquid nitrogen at about −150 to −196 °C. Storage at −80 °C is acceptable only as a short interim step before transfer to liquid nitrogen.

### Shipping conditions

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately −78 °C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

## DONOR

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| **Donor age** | 48 years |
| **Ethnicity** | Caucasian |

## LEGAL AND SAFETY

### Safety precautions

When planning to store a cryovial in liquid nitrogen for future thawing, it is mandatory to adhere to stringent safety measures. Appropriate protective gloves and clothing are essential, and the use of a face mask or safety goggles is required during the transfer of frozen samples to or from the liquid nitrogen tank. This is to mitigate the risk of injury from potential cryovial explosions upon removal, which can result in the projection of sharp fragments.

### Warranty

At Cytion, we stand behind the quality and viability of our products.
We guarantee that our cells will be viable at the start of culture for
60 days after shipment from our facilities.
We assure that all materials conform to the specifications described in the
Certificate of Analysis and/or Product Sheet.
For full details, please refer to our
Warranty Statement.

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| **Material Transfer Agreement required** | Yes |

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