



# Lung Carcinoma

## Xenograft Tumor Model

MODEL	NOMENCLATURE	HAIR	T CELLS	B CELLS	NK CELLS
Athymic Nude Rat	Hsd:RH-Foxn1 <sup>nu</sup>	No	Nonfunctional	Functional	Functional

### MODEL

The athymic nude rat has an autosomal recessive mutation on *nu* locus on chromosome 10. The hairless model is T-cell deficient and accepts xenograft transplantation.

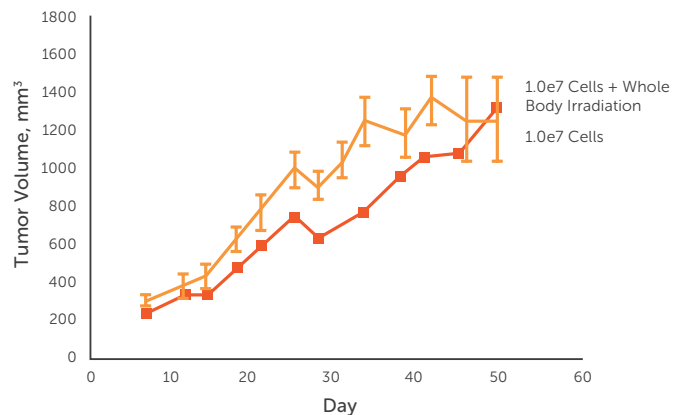
### CELL LINE

Human A549 cells sourced from ATCC® (Number: CLL-185™) were implanted into a cohort of athymic nude rats. Female rats at approximately 8 weeks of age were implanted with 1.0e7 cells with GFR Matrigel (1:1 dilution) into the subcutaneous space of the right flank.

### TUMOR GROWTH *IN VIVO*

The mice were maintained in a barrier under controlled environmental conditions. The mice consumed Teklad Global Rodent Diet 2914 (14% protein). Body weights were taken and tumor measurements were assessed with a caliper twice per week.

#### Tumor Growth Rate for A549 Cells Inoculated into Female Athymic Nude Rats



Data shown as mean values; N=8 per cohort  
Tumor growth study services conducted by Labcorp Drug Development