



Oncology  
Cell Line: MKN-45

# Gastric Adenocarcinoma

## Xenograft Tumor Model

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

### MODEL

The athymic nude mouse has an autosomal recessive mutation on *nu* locus on chromosome 11. The hairless model is T-cell deficient and accepts xenograft transplantation.

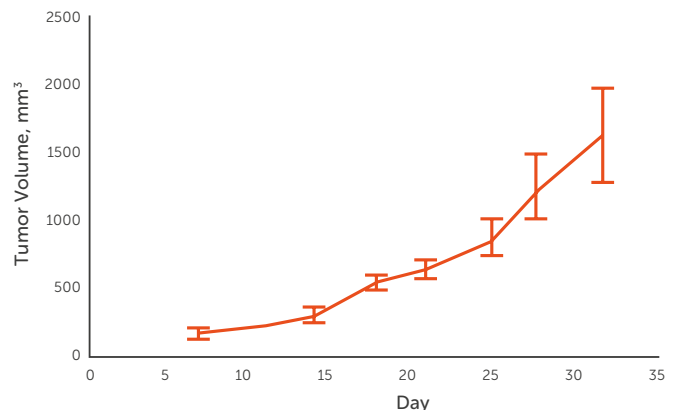
### CELL LINE

Human MKN-45 cells sourced from DSMZ® (Number: ACC 409) were implanted into a cohort of athymic nude mice. Female mice at approximately 8 weeks of age were implanted with 5.0e6 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 MKN-45 Cells Inoculated into Female Athymic Nude Mice



Data shown as mean values; N=10  
Tumor growth study services conducted by Labcorp Drug Development