Lung Carcinoma
Xenograft Tumor Model

Model
The athymic nude rat has an autosomal recessive mutation on rnu 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.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NOMENCLATURE</th>
<th>HAIR</th>
<th>T CELLS</th>
<th>B CELLS</th>
<th>NK CELLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athymic Nude Rat</td>
<td>Hsd:RH-Foxn1&lt;sup&gt;nu&lt;/sup&gt;</td>
<td>No</td>
<td>Nonfunctional</td>
<td>Functional</td>
<td>Functional</td>
</tr>
</tbody>
</table>

Data shown as mean values; N=8 per cohort
Tumor growth study services conducted by Covance, Inc.