B6.C3RL-Lys^b/J

Stock No: 000204

Congenic

Overview

Mice homozygous for the beige spontaneous mutation (Lys^b) are characterized by a condition that closely resembles Chediak-Higashi disease in man and similar conditions in mink and cattle. Abnormal giant lysosomal granules occur in all tissues with granule-containing cells, including granulocytes, lymphocytes, cells of the liver, kidney, central nervous system, pancreas, and thyroid, and the ducts of most glands; in type II pneumocytes; in mast cells; and in retinal pigment epithelium. Granulocytes from beige homozygous mutant mice mice show defective chemotaxis and reduced bactericidal activity. Beige mice are more susceptible than controls to pneumonitis and to various viral, bacterial, and parasitic infections. Natural killer (NK) cells from beige mice exhibit decreased endogenous cytotoxic activity. Beige mice also have a defective cytotoxic T-cell and cytotoxic antibody response to allogeneic tumor cells. Syngeneic tumor cells grow better in beige mice than in l...

Genetic overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>000664 C57BL/6J</td>
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**Lys^b**

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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Radiation induced</td>
<td>Lyst</td>
<td>lysosomal trafficking regulator</td>
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