B6C3Fe a/a-Rora<sup>99</sup>/J

Stock No: 000237 | staggerer

Spontaneous Mutation

Overview

Also Known As: staggerer

Mice homozygous for the staggerer spontaneous mutation (Rora<sup>99</sup>) show a staggering gait, mild tremor, hypotonia, and small size. The cerebellar cortex of homozygous mutant mice is grossly underdeveloped with a deficiency of granule cells and Purkinje cells. The remaining granule cells migrate inward from the external layer prematurely and then degenerate. Purkinje cells are much delayed in postnatal differentiation and lack the dendritic spines on which synapses with the parallel fibers from the granule cells normally occur. Staggerer mutant mice have been used as a source of an agranulate cerebellum in a number of investigations of the composition and function of granule cells. Kompels et al. have reported a hyperproduction of IL1 biological activity and mRNA from LPS stimulated spleen cells of Rora<sup>99</sup>/Rora<sup>99</sup> mice on the C57BL/6J background relative to wild type siblings.

Genetic overview

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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Rora<sup>99</sup>

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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Rora</td>
<td>RAR-related orphan receptor alpha</td>
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a

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<tr>
<th>Allele Type</th>
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<td>Spontaneous</td>
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