

## Animal Model

# B6.129P2-Ncam1tm1Cgn/J

Jackson Stock Number: 002405

#### Abstract

Mice homozygous for the Ncam1tm1Cgn targeted mutation show a 10% reduction in overall brain weight and 36% reduction in olfactory bulb size. Motor end plates were 14% smaller in NCAM-deficient mice compared to controls, and the formation of junctional folds was delayed. They also show deficits in spatial learning and in the amount of protein-bound alpha-(2,8)-linked polysialic acid. Both homozygous and heterozygous mutant mice are reportedly more aggressive than wildtype controls.

#### Cancer Research:

Defects in Cell Adhesion Molecules Growth Factors/Receptors/Cytokines

**Developmental Biology Research:** Neurodevelopmental Defects

#### Immunology and Inflammation Research:

CD Antigens, Antigen Receptors, and Histocompatibility Markers Growth Factors/Receptors/Cytokines

### Neurobiology Research:

Neurodevelopmental Defects Neurotrophic Factor Defects

Further Reading & Datasheet See information from The Jackson Laboratory

This animal model is bred and managed by The Jackson Laboratory and marketed for commercial use by Ascenion.

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