CD11c-DTR Transgenic Mice (B6.FVB-1700016L21RikTg [Itgax-DTR/EGFP] 57Lan/J; Jax stock number: 004509)

The CD11c-DTR/GFP transgenic line 57 has the CD11c promoter (Itgax) directing expression of a diphtheria toxin receptor - enhanced green fluorescent protein (DTR/GFP) fusion protein to dendritic cell populations. (B6.FVB-1700016L21RikTg [Itgax-DTR/EGFP] 57Lan/J; Jax stock number: 004509)

Overview

Administration of diphtheria toxin results in depletion of dendritic cell populations. CD11c-DTR/GFP transgenic mice are useful in studies of mononuclear phagocyte origins and the specific role of dendritic cells in the immune response. Note: Shipping costs and logistics will be managed by JAX upon order approval.

In Goodwin et al. 2019 Genome Res. 29:494, it was discovered that line 57 has more than 20 copies of the CD11c-DTR/GFP transgene inserted into the 1700016L21Rik locus on chromosome 1 (80448681-80455738 bp [Build GRCm38/mm10]).

Note: Shipping costs and logistics will be managed by JAX upon order approval.

References

1. Jung S, Unutmaz D, Wong P, et al.(2002) , In vivo depletion of CD11c+ dendritic cells abrogates priming of CD8+ T cells by exogenous cell-associated antigens, Immunity

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